



FAKULTI PERUBATAN VETERINAR
Faculty of Veterinary Medicine

HANDBOOK
Doctor of
Veterinary
medicine

BUKU PANDUAN

DOKTOR
PERUBATAN
VETERINAR

2020

FAKULTI PERUBATAN VETERINAR

Maklumat Am

Fakulti Perubatan Veterinar, Universiti Putra Malaysia (UPM) ditubuhkan pada tahun 1973. Pada masa itu UPM dikenali sebagai Universiti Pertanian Malaysia dan Fakulti sebagai Fakulti Kedoktoran Veterinar dan Sains Peternakan. Fakulti kini dibentuk oleh 6 jabatan, tiga daripadanya baru diwujudkan pada tahun 2013. Tiga jabatan asal ialah Jabatan Sains Prakilinikal Veterinar yang menumpu kepada sains veterinar asas dan produksi haiwan, Jabatan Patologi dan Mikrobiologi Veterinar kepada sains paraklinikal dan Jabatan Pengajian Klinikal Veterinar kepada sains klinikal. Tiga jabatan baharu iaitu Jabatan Diagnosis Makmal Veterinar, Jabatan Perubatan dan Pembedahan Haiwan Kesayangan dan Jabatan Perubatan dan Pembedahan Haiwan Ladang dan Eksotik yang menumpu kepada perkhidmatan dan amalan klinikal.

Fakulti juga mempunyai sebuah Hospital Veterinar Universiti (UVH) yang terulung di negara ini. Hospital ini serba lengkap dan moden, memberi perkhidmatan diagnosis, rawatan, pembedahan dan penjagaan semua jenis haiwan kepada masyarakat. Kes yang dirujuk kepada UVH juga merupakan sumber untuk pengajaran pelajar program Doktor Perubatan Veterinar.

Fakulti adalah institusi pengajian tinggi pertama yang memperolehi persijilan ISO 9001 komprehensif dalam pengajaran, penyelidikan dan perkhidmatan profesional pada 7 Julai 2000. Fakulti juga diakreditasi dengan ISO 17250 untuk beberapa ujian makmal. Untuk kekal relevan dan selaras dengan era pencerantauan dan globalisasi Fakulti sedang berusaha untuk memperolehi akreditasi antarabangsa untuk program Doktor Perubatan Veterinarnya.

General Information

The Faculty of Veterinary Medicine, Universiti Putra Malaysia (UPM) was established in 1973. Then UPM was known as Universiti Putra Malaysia and the Faculty as Faculty of Veterinary Medicine and Animal Science. Currently the Faculty is composed of six departments, three of which were created in 2013. The three original departments are Department of Veterinary Preclinical Sciences focusing on basic veterinary sciences and animal production, Department of Veterinary Pathology and Microbiology on paraclinical sciences, and Department of Veterinary Clinical Studies on clinical sciences. The three new departments are Department of Veterinary Laboratory Diagnosis, Department of Small Animal Medicine and Surgery, and Department of Large and Exotic Animal Medicine and Surgery all focusing on clinical practice and service.

The Faculty also has the one and only University Veterinary Hospital (UVH) in the country. This hospital is well-equipped and modern, offering diagnostic, treatment, surgical and care services for all kinds of animal for the society. The cases referred to UVH are also sources of teaching material for the Doctor of Veterinary Medicine students.

The Faculty is the first institution of higher learning to be awarded a comprehensive ISO 9001 certification for teaching, research and professional services on 7 July, 2000. The Faculty is also accredited with ISO 17025 for several laboratory tests. To remain relevant and consistent with era of regionalisation and globalisation, the Faculty is currently in the process of acquiring international accreditation for its Doctor of Veterinary Medicine programme.

Pengurusan Fakulti/ *Faculty Management*

Dekan/Dean

Prof. Dr. Abdul Rahman Omar

Timbalan Dekan (Akademik & Hal Ehwal Pelajar)

Deputy Dean (Academic & Student Affairs)

Prof. Madya Dr. Hazilawati Hamzah

Timbalan Dekan (Hospital Veterinar)

Deputy Dean (Veterinary Hospital)

Prof. Dr. Jalila Abu

Timbalan Dekan (Penyelidikan, Pengajian Siswazah & Jaringan Industri dan Masyarakat)

Deputy Dean (Research, Postgraduate Studies & Industry and Community Relations)

Prof. Dr. Faez Jesse Firdaus Abdullah

Ketua Jabatan Sains Praktikal Veterinar

Head, Department of Veterinary Preclinical Sciences

Prof. Madya Dr. Arifah Abdul Kadir

Ketua Jabatan Pengajian Klinikal Veterinar

Head, Department of Veterinary Clinical Studies

Prof. Madya Dr. Lau Seng Fong

Ketua Jabatan Patologi dan Mikrobiologi Veterinar

Head, Department of Veterinary Pathology & Microbiology

Prof. Madya Dr. Siti Khairani Bejo

Ketua Jabatan Diagnosis Makmal Veterinar

Head, Department of Veterinary Laboratory Diagnosis

Prof. Dr. Latifah Hassan

Ketua Jabatan Perubatan dan Pembedahan Haiwan Kesayangan

Head, Department of Companion Animals Medicine and Surgery

Prof. Madya Dr. Chen Hui Cheng

Ketua Jabatan Perubatan dan Pembedahan Haiwan Ladang dan Eksotik

Head, Department of Farm and Exotic Animals Medicine and Surgery

Prof. Madya Dr. Nurul Hayah Khairuddin

Ketua Penolong Pendaftar

Chief Assistant Registrar

En. Ludinata Misnun

Pegawai Tadbir Fakulti

Faculty Administrative Officer

Pn. Rita Bajat

En. Norazlan Mohamed

En. Muhammad Akees Abu Mansor

Program Prasiswazah yang ditawarkan

Bachelor

1. Doktor Perubatan Veterinar/ *Doctor of Veterinary Medicine*

DOCTOR OF VETERINARY MEDICINE (DVM) PROGRAMME

1. Level 1

University Courses and Pre-clinical

Level 2

Para-clinical Courses

Level 3

Clinical Courses

2. University Courses	-	22 credits
Core Courses DVM	-	161 credits, include off training campus*
Elective Courses	-	6 credits

		189 credits

*Off training campus course (Industrial Training) – conducted during first and second semester for 1st – 4th year student (DVM1 – 4).

3. Co-curriculum course, 2 credits (offered by Co-curriculum Centre).

4. ELEX (ENGLISH LANGUAGE EXPERIENCE) PACKAGE:

MUET Band	Graduation Requirements for 4-year programmes
3 & 4	2 LPE + 3 CEL + 12 LAX points
5 & 6	2 LPE + 3 CEL + 12 LAX points

5. Grade Point Average (GPA)

- Strive to achieve GPA > 3.00 for each semester
- CGPA below 2.50 – Under Performing Student
- GPA 3.75 - 3.99 – Dean Award
- GPA 4.00 – Vice Chancellor's Award

6. 50% is passing mark for courses Faculty of Veterinary Medicine

- < 49 - Under Performing Student

7. Vice-Chancellor's Award

As appreciation to the final year students who excel in co-curriculum involvement and contribution and successfully demonstrated the characteristics of strong leadership throughout active in co-curriculum activities.

8. Faculty and University Prizes

54 prizes (*Appendix I*) at faculty level and 10 prizes at university level.

9. a) Final Year Project (9th Semester)

- Divide into 3 division: effort (20%), seminar (40%), report writing (40%).

b) Comprehensive Exam (Final Semester)

- Student need to pass all the 3 session (pre-clinical, para-clinical, and clinical) for them passed the Comprehensive Exam. Each section inclusive essay (30%) MCQ (30%) and oral examination (40%).
- If the student failed this exam, they may need to repeat one semester.

10. Students Activities

The DVM student has a student association named VETERNAK (Persatuan Pelajar Veterinar). The main student activities as in *Appendix II*.

GUIDELINE FOR DVM STUDENTS

1. Abide by UUCA (1971) and Universiti Putra Malaysia Rules (Academic) 2014. Refer to AUKU and Perkara Akademik Prasiswazah (2014) at eBook <http://www.akademik.upm.edu.my/ebookakd#ebookakd>
2. Adhere to University Dress Code :
 - dress appropriately in particular no shorts, no jeans, no collarless T-shirt, no sleeveless and one-eight sleeved and short shirt/T-shirt, no slippers and no earrings (for males) at all times in the Faculty.
3. Project 'professional' image at all times – as a veterinary student there is an image to uphold and to abide to professional ethics and conduct.
4. Be punctual at all classes including labs, clinic duties, trips, talks, events and meetings.
5. Inform lecturers and relevant staff if you are not able to attend classes including labs, clinics, trips, talks, events and meetings.
6. Take note and comply to all deadlines. If for any valid reason, you are not able to comply, inform relevant persons.
7. Meet with 'Penasihat Akademik' at least twice in a semester.
8. Talk to your 'Penasihat Akademik', course coordinators or Faculty Management regarding problems encountered. Never wait until the very last minute to try and resolve problems especially those relating to academic matters.
9. Participate in student activities at the Faculty and residential college.

STRUKTUR KURIKULUM/ CURRICULUM STRUCTURE

Nama Program : Doktor Perubatan Veterinar/ *Doctor of Veterinary Medicine*

Jumlah Kredit Bergraduat : 189 Jam Kredit/ *Credit Hours*

Tempoh Pengajian : 10 Semester / *Semesters* (5 Tahun / *Years*)

Matlamat Program :

1. Veterinawan yang berkecimpung dalam amalan sains veterinar dan yang berkaitan.
2. Veterinawan yang terlibat dalam pembelajaran multidisiplin yang sesuai untuk kerjaya industri dan akademik.
3. Veterinawan yang menyumbang kepada peningkatan kualiti hidup dan kesejahteraan haiwan, manusia dan ekosistem melalui perkhidmatan dan industri veterinar.

PEMETAAN HASIL PEMBELAJARAN PROGRAM (LO) DAN MATLAMAT PROGRAM (PEO)

BIL	Matlamat Program (PEO)	Hasil Pembelajaran Program (PLO)									
		Pengetahuan	Kemahiran Teknikal/Praktikal/Psikomotor	Kemahiran Berfikir Dan Pendekatan Saintifik	Kemahiran Berkommunikasi	Kemahiran sosial Dan Bertanggungjawab	Profesionalisme, Nilai, Sikap Dan Etika	Pendidikan Sepanjang Hayat Dan Pengurusan Informasi	Kemahiran Pengurusan Dan Keusahawanan	Kemahiran Kepemimpinan,	Kemahiran Numerasi
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10
		-	-	CTPS	CS	TS	EM	LL	KK	LS	NS
1	Veterinawan yang berkecimpung dalam amalan sains veterinar dan yang berkaitan	✓	✓	✓	✓			✓	✓		✓
2	Veterinawan yang terlibat dalam pembelajaran multidisiplin yang sesuai untuk kerjaya industri dan akademik	✓		✓			✓	✓		✓	
3	Veterinawan yang menyumbang kepada peningkatan kualiti hidup dan kesejahteraan haiwan, manusia dan ekosistem melalui perkhidmatan dan industri veterinar		✓		✓	✓	✓			✓	

SENARAI KURSUS DAN PRASYARAT/ LIST OF COURSES AND PRE-REQUISITION

1. Kursus Universiti/ University Courses (22 Kredit/ credits)

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T	PRASYARAT/ PREREQUISITE
SKP3112	Falsafah dan Isu Semasa/ <i>Philosophy and Current Issues</i>	2	2	0	Tiada/ <i>None</i>
SKP3122	Penghayatan Etika dan Peradaban / <i>Internalization of Ethics and Civilization</i>	2	2	0	Tiada/ <i>None</i>
SKP2101	Kenegaraan Malaysia/ <i>Malaysian Nationhood</i>	3	3	0	Tiada/ <i>None</i>
PRT2009	Pertanian dan Kehidupan/ <i>Agriculture and Life</i>	2	1	1	Tiada/ <i>None</i>
LPE2301	Academic Interaction and Presentation	3	2	1	LPE2401
LPE2501	Academic Writing	3	2	1	LPE2301
FCE3204	Kemahiran Berfikir/ <i>Thinking Skills</i>	2	2	0	Tiada/ <i>None</i>
KOM3403	Pengucapan Awam/ <i>Public Oration</i>	3	3	0	Tiada/ <i>None</i>
QKXXXX	Kokurikulum/ Co-curriculum	1	0	1	Tiada/ <i>None</i>
QKXXXX	Kokurikulum/ Co-curriculum	1	0	1	Tiada/ <i>None</i>
ELEx					

2. Kursus Teras/ Core Courses (161 kredit/ credits)

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T	PRASYARAT/ PREREQUISITE
VPP3021	Biokimia Veterinar/ <i>Veterinary Biochemistry</i>	3	2	1	Tiada/ <i>None</i>
SHW3002	Pertanian Ternakan/ <i>Animal Agriculture</i>	3	2	1	Tiada/ <i>None</i>
SHW3101	Produksi Ruminan/ <i>Ruminant Production</i>	3	2	1	VPP3130
SHW3202	Produksi Bukan Ruminan/ <i>Non-ruminant Production</i>	4	3	1	VPP3130
VPP3130	Pemakanan Veterinar/ <i>Veterinary Nutrition</i>	3	2	1	VPP3021
VPP3140	Genetik Veterinar/ <i>Veterinary Genetics</i>	3	2	1	Tiada/ <i>None</i>
VPP3160	Statistik Gunaan dan Kaedah Penyelidikan/ <i>Applied Statistics & Research Methods</i>	3	2	1	Tiada/ <i>None</i>
VPP3170	Perniagaan Veterinar/ <i>Veterinary Business</i>	3	2	1	Tiada/ <i>None</i>
VPP3211	Anatomi Veterinar I/ <i>Veterinary Anatomy 1</i>	4	2	2	Tiada/ <i>None</i>

VPP3212	Anatomi Veterinar II/ <i>Veterinary Anatomy II</i>	4	2	2	VPP3211
VPP3213	Anatomi Veterinar III/ <i>Veterinary Anatomy III</i>	4	2	2	VPP3211
VPP3231	Fisiologi Veterinar I/ <i>Veterinary Physiology I</i>	3	2	1	Tiada/ <i>None</i>
VPP3232	Fisiologi Veterinar II/ <i>Veterinary Physiology II</i>	3	2	1	VPP3231
VPP3233	Fisiologi Veterinar III/ <i>Veterinary Physiology III</i>	3	2	1	VPP3231
VPP3251	Farmakologi dan Toksikologi Veterinar / <i>Veterinary Pharmacology And Toxicology</i>	4	3	1	VPP3233
VPP3271	Jurisprudens, Etologi Dan Kebajikan Haiwan/ <i>Jurisprudence Ethology And Animal Welfare</i>	2	2	0	Tiada/ <i>None</i>
VPM3301	Bakteriologi Dan Mikologi Veterinar/ <i>Veterinary Bacteriology and Mycology</i>	3	2	1	Tiada/ <i>None</i>
VPM3340	Virologi Veterinar/ <i>Veterinary Virology</i>	3	2	1	Tiada/ <i>None</i>
VPM3351	Parasitologi Veterinar I/ <i>Veterinary Parasitology I</i>	3	2	1	Tiada/ <i>None</i>
VPM3352	Parasitologi Veterinar II/ <i>Veterinary Parasitology II</i>	2	2	0	VPM3351
VPM3361	Jangkitan dan Keimunan/ <i>Infection and Immunity</i>	2	1	1	VPP3231, VPM3301
VPM3415	Patologi Veterinar I/ <i>Veterinary Pathology I</i>	3	2	1	VPP3211, VPP3231
VPM3416	Patologi Veterinar II/ <i>Veterinary Pathology II</i>	4	3	1	VPM3415
VPM3417	Patologi Veterinar III/ <i>Veterinary Pathology III</i>	4	3	1	VPM3416
VPM4430	Patologi Klinikal Veterinar/ <i>Veterinary Clinical Pathology</i>	3	2	1	VPM3415
VPM4500	Kesihatan Awam Veterinar/ <i>Veterinary Public Health</i>	4	3	1	VPM3340, VPM3351
VPK3702	Anestesiologi dan Surgeri Am/ <i>General Surgery and Anaesthesiology</i>	4	2	2	VPP3251
VPK3712	Surgeri Veterinar Sistem Badan/ <i>Veterinary Surgery of the Body Systems</i>	4	3	1	VPK3702
VPK3612	Kemahiran Klinikal Veterinar / <i>Veterinary Clinical Skills</i>	2	1	1	Tiada/ <i>None</i>
VPK3613	Perubatan Klinikal Veterinar I / <i>Veterinary Clinical Medicine I</i>	2	2	0	VPK3612
VPK3614	Perubatan Klinikal Veterinar II/ <i>Veterinary Clinical Medicine II</i>	3	2	1	VPK3612
VPK3750	Pengimejan Diagnosis Veterinar/ <i>Veterinary Diagnostic Imaging</i>	2	1	1	VPP3213

VPK3801	Teriogenologi / <i>Theriogenology</i>	2	2	0	VPM3417
VPK3910	Pengenalan Profesyen Veterinar/ <i>Introduction to the Veterinary Profession</i>	1	0	1	Tiada/ <i>None</i>
VPK3931	Amalan Klinikal dan Diagnosis I / <i>Clinical Practice and Diagnosis I</i>	2	0	2	VPK3612
VPK3932	Amalan Klinikal dan Diagnosis II / <i>Clinical Practice and Diagnosis II</i>	2	0	2	VPK3931
VPK4620	Epidemiologi Veterinar/ <i>Veterinary Epidemiology</i>	3	2	1	Tiada/ <i>None</i>
VPK4640	Perubatan Felin dan Kanin/ <i>Feline and Canine Medicine</i>	3	3	0	VPK3614
VPK4650	Perubatan Ekuin/ <i>Equine Medicine</i>	2	2	0	VPK3614
VPK4660	Perubatan Ruminan/ <i>Ruminant Medicine</i>	3	3	0	VPK3614
VPK4670	Penyakit Babi/ <i>Pig Medicine</i>	2	2	0	VPK3614
VPK4680	Perubatan Avian/ <i>Avian Medicine</i>	2	2	0	VPK3614
VPK4692	Kesihatan Dan Pengurusan Haiwan Akuatik/ <i>Aquatic Animal Health and Management</i>	3	2	1	Tiada/ <i>None</i>
VPK4695	Perubatan Haiwan Eksotik & Hidupan Liar/ <i>Exotic Animal and Wildlife Medicine</i>	2	2	0	VPK3614
VPK4943	Amalan Klinikal Veterinar I/ <i>Veterinary Clinical Practice I</i>	6	0	6	VPK3932
VPK4944	Amalan Klinikal Veterinar II/ <i>Veterinary Clinical Practice II</i>	9	0	9	VPK4943
VPD3932	Orientasi Profesional Veterinar/ <i>Veterinary Professional Orientation</i>	2	0	2	Tiada/ <i>None</i>
VPD3933	Pengurusan Haiwan Ternakan I/ <i>Management of Livestocks I</i>	2	0	2	Tiada/ <i>None</i>
VPD3934	Pengurusan Haiwan Ternakan II/ <i>Management of Livestocks II</i>	2	0	2	Tiada/ <i>None</i>
VPD3935	Orientasi Klinikal/ <i>Clinical Orientation</i>	1	0	1	Tiada/ <i>None</i>
VPD4941	Amalan Luar (Makmal Diagnosis)/ <i>Extramural Laboratory Diagnostic Practice</i>	1	0	1	Tiada/ <i>None</i>
VPD4945	Amalan Luar (Klinik) / <i>Extramural Clinical Practice</i>	2	0	2	Tiada/ <i>None</i>
VPD4970	Siasatan Masalah Veterinar/ <i>Veterinary Problem Investigation</i>	1	0	1	Tiada/ <i>None</i>
VPD4971	Penyelesaian Masalah Penyakit/ <i>Problem Solving in Disease</i>	1	0	1	Tiada/ <i>None</i>
VPD4999	Projek Ilmiah Tahun Akhir/ <i>Final Year Academic Project</i>	3	0	3	Tiada/ <i>None</i>
VPD4990	Sains Veterinar Gunaan/ <i>Applied Veterinary Science</i>	3	0	3	Lulus semua kursus teras sebelum semester akhir program DPV

3. Elektif/ *Elective* - Bukan Berkaitan Haiwan/ *Non-Animal* Related (6 kredit/ *credits*)

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T	PRASYARAT/ PREREQUISITE
SSK3000	Teknologi Maklumat dan Penggunaannya/ <i>Information Technology And Its Applications</i>	3	2	1	Tiada/ <i>None</i>
MGM3101	Prinsip Pengurusan/ <i>Principles of Management</i>	3	3	0	Tiada/ <i>None</i>
MGM3211	Prinsip Pemasaran	3	3	0	Tiada/ <i>None</i>
ANT2001	Masyarakat dan Perubahan/ <i>Society and Change</i>	2	2	0	Tiada/ <i>None</i>
DCE3406	Kepimpinan dalam Pengembangan dan Pembangunan Masyarakat/ <i>Leadership In Extension & Community Development</i>	3	3	0	Tiada/ <i>None</i>
KOM2231	Prinsip Asas Komunikasi/ <i>Basic Communication Principles</i>	3	3	0	Tiada/ <i>None</i>
KOH3333	Perubahan dan Komunikasi/ <i>Changes and Communication</i>	3	3	0	Tiada/ <i>None</i>
KOH3401	Komunikasi Kumpulan Kecil/ <i>Small Group Communication</i>	3	3	0	Tiada/ <i>None</i>
KOC3433	Kemahiran Komunikasi keorganisasian / <i>Organisational Communication Skills</i>	3	3	0	Tiada/ <i>None</i>
KOH3462	Debat dan Penghujahan/ <i>Argumentation and Debate</i>	3	3	0	Tiada/ <i>None</i>
ECN3010	Prinsip Ekonomi/ <i>Principles Of Economics</i>	3	3	0	Tiada/ <i>None</i>
ECN3161	Ekonomi Malaysia/ <i>Malaysian Economics</i>	3	3	0	Tiada/ <i>None</i>
PPT4701	Keusahawan Pemiagaantani/ <i>Agribusiness Entrepreneurship</i>	3	3	0	Tiada/ <i>None</i>
AKU3201	Prinsip Akuakultur/ <i>Principles Of Aquaculture</i>	3	2	1	Tiada/ <i>None</i>
BTC3001	Pengenalan kepada Bioteknologi/ <i>Introduction To Biotechnology</i>	2	2	0	Tiada/ <i>None</i>
EMG3001	Manusia dan Alam Sekitar/ <i>Man And Environment</i>	3	3	0	Tiada/ <i>None</i>

Nota/ Notes : Kr = Jam Kredit/ *Credit Hour*, K = Kuliah/ *Lecture*, A = Amali/ *Laboratory*, T = Tutorial,

Nota Penting/Notes :

Pelajar diwajibkan memilih 2 kredit daripada kursus kokurikulum yang ditawarkan oleh universiti/ *It is compulsory for students to take 2 credits of co-curriculum courses offered by the university*

ELEX SCHEME FOR 4 YEARS PROGRAMMES FROM SEPTEMBER 2017

Pelajar perlu melengkapkan pakej keperluan bahasa inggeris seperti jadual di bawah:
Students need to complete the english package as the table below:

MUET Band	Graduation Requirements for 4-year programmes
3 & 4	2 LPE + 3 CEL + 12 LAX points
5 & 6	2 LPE + 2 CEL + 12 LAX points

Year of Study	Semester	MUET 3 & 4	MUET 5 & 6
1	1	CEL2102 (Effective Listening and Speaking)	
	2	LPE2301 (Academic Interaction & Presentation)	LAX University (12 points)
2	3	LPE2501 (Academic Writing)	
	4	CEL2106 (Communication for Professional Development)	LPE2402 (Critical Reading Skills)
3	5	CEL2108 (English for IELTS)	
	6	IELTS LAX University (12 points)	IELTS
4	7	<i>Register & Repeat CEL2108 & IELTS</i>	
	8	<i>Register & Repeat CEL2108 & IELTS</i>	

Note:

- i) Students who are away on Industrial Training in any semester need not enroll in any course or LAX for that particular semester, but they must enroll in a course LAX in subsequent semesters.
- ii) Kursus LPE [kredit (3+0)]
 - Jika pelajar gagal kursus LPE, mereka perlu mengulang kursus tersebut sehingga lulus sebelum mengikuti kursus yang seterusnya. / *The student need to repeat the LPE course if their failed before proceed to next courses.*
- iii) Kursus CEL/ CEL Course
 - Jika pelajar memperolehi TAHAP 1 dalam kursus CEL, mereka perlu mengulang kursus tersebut sehingga lulus (TAHAP 2 ke atas). / *The students need to repeat the course if their get Level 1 until their pass (Level 2 and above).*

iv) LAX

- LAX (6 mata/*points* atau/or 12 mata/*points*); 1 mata/*points*= 2 jam seminggu/*hours perweek*
- 6 mata/*points*LAX = 6 minggu/*week* X2 jam seminggu/*hours perweek*
- 12 mata/*points*LAX = 12 minggu/*week* X 2 jam seminggu/ *hours perweek*
- Jika pelajar memperoleh TM(Tidak Memuaskan), mereka perlu menjalani aktiviti LAX yang sama atau yang berlainan menggantikan mata aktiviti yang gagal (TM). Pelajar hendaklan memastikan syarat jumlah mata LAX dipenuhi sebelum bergraduat.

v) Pre-requisites for courses

- CEL2102: Level 2 in CEL2101 or MUET Band 5-6
- CEL2103: Passed LPE2501 or MUET Band 5 – 6
- LPE2301: Level 2 in LPE2401
- LPE2501: Passed LPE2301
- CEL2104,2105,2106,2107: Passed LPE2501 or MUET Band 5 – 6

SKEMA PENGAJIAN/ STUDY SCHEME

TAHUN 1/ 1ST YEAR

SEMESTER 1/ 1ST SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
SKP3112	Falsafah dan Isu Semasa/ <i>Philosophy and Current Issues</i>	2	2	0
SKP3122	Penghayatan Etika dan Peradaban <i>/Internalization of Ethics and Civilization</i>	2	2	0
VPP3021	Biokimia Veterinar/ <i>Veterinary Biochemistry</i>	3	2	1
SHW3002	Pertanian Ternakan/ <i>Animal Agriculture</i>	3	2	1
VPK3910	Pengenalan Profesyen Veterinar/ <i>Introduction to the Veterinary Profession</i>	1	0	1
MGM3101	Prinsip Pengurusan/ <i>Principles of Management</i>	3	3	0
CEL2102	<i>Efective Listening & Speaking</i>	DK		
QKxxxx	Kokurikulum/ Co-curriculum	1	0	1
JUMLAH/ TOTAL		15	11	4

SEMESTER 2/ 2ND SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
SKP2101	Kenegaraan Malaysia/ <i>Malaysian Nationhood</i>	3	3	0
PRT2009	Pertanian dan Kehidupan/ <i>Agriculture and Life</i>	2	1	1
VPP3211	Anatomi Veterinar I/ <i>Veterinary Anatomy 1</i>	4	2	2
VPP3231	Fisiologi Veterinar I/ <i>Veterinary Physiology I</i>	3	2	1
VPP3130	Pemakanan Veterinar/ <i>Veterinary Nutrition</i>	3	2	1
KOC3433	Kemahiran Komunikasi Keorganisasian <i>/Organizational Communication Skills</i>	3	3	0
LPE2301	Academic Interaction and Presentation	3	2	1
LAX university (Muet 5 & 6)	<i>ELEX</i>			
VPD3932	Orientasi Profesional Veterinar/ <i>Veterinary Professional Orientation</i>	2	0	2
QKxxxx	Kokurikulum/ Co-curriculum	1	0	1
JUMLAH/ TOTAL		24	15	9

TAHUN 2/ 2ND YEAR

SEMESTER 1/ 1ST SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
VPP3212	Anatomi Veterinar II/ <i>Veterinary Anatomy II</i>	4	2	2
VPP3232	Fisiologi Veterinar II/ <i>Veterinary Physiology II</i>	3	2	1
SHW3101	Produksi Ruminan/ <i>Ruminant Production</i>	3	2	1
SHW3202	Produksi Bukan Ruminan/ <i>Non-ruminant Production</i>	4	3	1
VPP3271	Jurisprudens, Etologi Dan Kebajikan Haiwan/ <i>Jurisprudence Ethology And Animal Welfare</i>	2	2	0
VPP3140	Genetik Veterinar/ <i>Veterinary Genetics</i>	3	2	1
LPE2501	Academic Writing	3	2	1
VPD3933A	Pengurusan Haiwan Ternakan I/ <i>Management of Livestock Animals I</i>	1	0	1
JUMLAH/ TOTAL		23	15	8

SEMESTER 2/ 2ND SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
VPP3213	Anatomi Veterinar III/ <i>Veterinary Anatomy III</i>	4	2	2
VPM3415	Patologi Veterinar I/ <i>Veterinary Pathology I</i>	3	2	1
VPM3301	Bakteriologi & Mikologi Veterinar/ <i>Veterinary Bacteriology and Mycology</i>	3	2	1
VPP3233	Fisiologi Veterinar III/ <i>Veterinary Physiology III</i>	3	2	1
VPM3351	Parasitologi Veterinar I/ <i>Veterinary Parasitology I</i>	3	2	1
CEL/LPE	ELEX	DK		
FCE3204	Kemahiran Berfikir/ <i>Thinking Skills</i>	2	2	0
KOM3403	Pengucapan Awam/ <i>Public Oration</i>	3	3	0
VPD3933B	Pengurusan Haiwan Ternakan I/ <i>Management of Livestock Animals I</i>	1	0	1
JUMLAH/ TOTAL		22	15	7

TAHUN 3/ 3RD YEAR

SEMESTER 1/ 1ST SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
VPK3612	Kemahiran Klinikal Veterinar / <i>Veterinary Clinical Skills</i>	2	1	1
VPM3352	Parasitologi Veterinar II/ <i>Veterinary Parasitology II</i>	2	2	0
VPP3251	Farmakologi dan Toksikologi Veterinar / <i>Veterinary Pharmacology And Toxicology</i>	4	3	1
VPM3416	Patologi Veterinar II/ <i>Veterinary Pathology II</i>	4	3	1
VPM3340	Virologi Veterinar/ <i>Veterinary Virology</i>	3	2	1
VPM3361	Jangkitan dan Keimunan/ <i>Infection and Immunity</i>	2	1	1
VPD4970	Siasatan Masalah Veterinar/ <i>Veterinary Problem Investigation</i>	1	0	1
CEL2108	English for IELTS	DK		
VPD3934A	Pengurusan Haiwan Ternakan II/ <i>Management of Livestocks II</i>	1	0	1
JUMLAH/ TOTAL		19	12	7

SEMESTER 2/ 2ND SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
VPK3613	Perubatan Klinikal Veterinar I / <i>Veterinary Clinical Medicine I</i>	2	2	0
VPM3417	Patologi Veterinar III/ <i>Veterinary Pathology III</i>	4	3	1
VPK3702	Anestesiologi dan Surgeri Am/ <i>General Surgery and Anaesthesiology</i>	4	2	2
VPK3750	Pengimejan Diagnosis Veterinar/ <i>Veterinary Diagnostic Imaging</i>	2	1	1
VPM4430	Patologi Klinikal Veterinar/ <i>Veterinary Clinical Pathology</i>	3	2	1
VPK4680	Perubatan Avian/ <i>Avian Medicine</i>	2	2	0
LAX University (Muet 3 & 4)	ELEX	DK		
VPD3934B	Pengurusan Haiwan Ternakan II/ <i>Management of Livestocks II</i>	2	0	2
VPD3935	Orientasi Klinikal/ <i>Clinical Orientation</i>	1	0	1
JUMLAH/ TOTAL		20	12	8

TAHUN 4/ 4TH YEARSEMESTER 1/ 1ST SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
VPK3614	Perubatan Klinikal Veterinar II/ <i>Veterinary Clinical Medicine II</i>	3	2	1
VPK3712	Surgeri Veterinar Sistem Badan/ <i>Veterinary Surgery of the Body Systems</i>	4	3	1
VPK3801	Teriogenologi / <i>Theriogenology</i>	2	2	0
VPK3931	Amalan Klinikal dan Diagnosis I/ <i>Clinical Practice and Diagnosis I</i>	2	0	2
VPK4695	Perubatan Haiwan Ekstotik & Hidupan Liar/ <i>Exotic Animal and Wildlife Medicine</i>	2	2	0
VPP3160	Statistik Gunaan dan Kaedah Penyelidikan/ <i>Applied Statistics & Research Methods</i>	3	2	1
VPK4692	Kesihatan Dan Pengurusan Haiwan Akuatik/ <i>Aquatic Animal Health and Management</i>	3	2	1
CEL/IELTS (Ulangan/Repeat)	ELEX	DK		
VPD4945A	Amalan Luar (Klinik) / <i>Extramural Clinical Practice</i>	1	0	1
JUMLAH/ TOTAL		20	13	7

SEMESTER 2/ 2ND SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
VPM4500	Kesihatan Awam Veterinar/ <i>Veterinary Public Health</i>	4	3	1
VPK4670	Penyakit Babi/ <i>Pig Medicine</i>	2	2	0
VPK4640	Perubatan Felin dan Kanin/ <i>Feline and Canine Medicine</i>	3	3	0
VPK3932	Amalan Klinikal dan Diagnosis II/ <i>Clinical Practice and Diagnosis II</i>	2	0	2
VPK4620	Epidemiologi Veterinar/ <i>Veterinary Epidemiology</i>	3	2	1
VPK4650	Perubatan Ekuin/ <i>Equine Medicine</i>	2	2	0
VPK4660	Perubatan Ruminan/ <i>Ruminant Medicine</i>	3	3	0
CEL/IELTS (Ulangan/Repeat)	ELEX	DK		
VPD4941	Amalan Luar (Makmal Diagnosis)/ <i>Extramural Laboratory Diagnostic Practice</i>	1	0	1
VPD4945B	Amalan Luar (Klinik) / <i>Extramural Clinical Practice</i>	1	0	1
JUMLAH/ TOTAL		21	15	6

TAHUN 5/ 5TH YEAR

SEMESTER 1/ 1ST SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
VPD4999	Projek Ilmiah Tahun Akhir/ <i>Final Year Project</i>	3	0	3
VPK4943	Amalan Klinikal Veterinar I/ <i>Veterinary Clinical Practice I</i>	6	0	6
VPP3170	Perniagaan Veterinar/ <i>Veterinary Business</i>	3	2	1
VPD4971	Penyelesaian Masalah Penyakit/ <i>Problem Solving in Disease</i>	1	0	1
JUMLAH/ TOTAL		13	2	11

SEMESTER 2/ 2ND SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
VPD4990	Sains Veterinar Gunaan/ <i>Applied Veterinary Science</i>	3	0	3
VPK4944	Amalan Klinikal Veterinar II/ <i>Veterinary Clinical Practice II</i>	9	0	9
JUMLAH/ TOTAL		12	0	12

Nota/Notes : Pelajar diwajibkan memilih 2 kredit daripada kursus kokurikulum, 6 kredit kursus elektif yang tidak berkaitan dengan haiwan yang ditawarkan oleh universiti/ *Students are required to take 2 credits of co-curriculum courses, and 6 elective courses comprises of non-animal related courses offered by the university.*

**PELAN PENGAJIAN PROGRAM DOKTOR PERUBATAN VETERINAR (MALAYSIAN) /
STUDY PLAN DOCTOR OF VETERINARY MEDICINE PROGRAMME (MALAYSIAN)**

TAHUN 1					
SEMESTER PERTAMA			SEMESTER KEDUA		
KOD	KURSUS	KREDIT	KOD	KURSUS	KREDIT
SKP3112	Falsafah dan Isu Semasa	2(2+0)	SKP 2101	Kenegaraan Malaysia	3(3+0)
SKP3122	Penghayatan Etika dan Peradaban	2(2+0)	PRT2009	Pertanian dan Kehidupan	2(1+1)
VPP3021	Biokimia Veterinar	3(2+1)	VPP3211	Anatomi Veterinar I	4(2+2)
SHW3002	Pertanian Ternakan	3(2+1)	VPP3231	Fisiologi Veterinar I	3(2+1)
VPK3910	Pengenalan Profesion Veterinar	1(0+1)	VPP3130	Pemakanan Veterinar	3(2+1)
MGM3101	Prinsip Pengurusan	3(3+0)	KOC3433	Kemahiran Komunikasi Keorganisasian	3(3+0)
CEL2102	Effective Listening and Speaking	DK	LPE/LAX	ELEx	DK
QKXxxx	Ko-Kurikulum	1(0+1)	VPD3932	Orientasi Profesional Veterinar	2(0+2)
			QKXxxx	Ko-Kurikulum	1(0+1)
JUMLAH		15(11+4)	JUMLAH		21(13+8)
TAHUN 2					
SEMESTER PERTAMA			SEMESTER KEDUA		
KOD	KURSUS	KREDIT	KOD	KURSUS	KREDIT
VPP3212	Anatomi Veterinar II	4(2+2)	VPP3213	Anatomi Veterinar III	4(2+2)
VPP3232	Fisiologi Veterinar II	3(2+1)	VPM3415	Patologi Veterinar I	3(2+1)
SHW3101	Produksi Ruminan	3(2+1)	VPM3301	Bakteriologi & Mikologi Veterinar	3(2+1)
SHW3202	Produksi Bukan Ruminan	4(3+1)	VPP3233	Fisiologi Veterinar III	3(2+1)
VPP3271	Jurisprudens, Etologi dan Kebajikan Haiwan	2(2+0)	VPM3351	Parasitologi Veterinar I	3(2+1)
VPP3140	Genetik Veterinar	3(2+1)	FCE3204	Kemahiran Berfikir	2(2+0)
LPE2501	Academic Writing	3(3+0)	KOM3403	Pengucapan Awam	3(3+0)
VPD3933A	Pengurusan Haiwan Ternakan I	1(0+1)	CEL/LPE	ELEx	DK
			VPD3933B	Pengurusan Haiwan Ternakan I	1(0+1)
JUMLAH		23(16+7)	JUMLAH		22(15+7)
TAHUN 3					
SEMESTER PERTAMA			SEMESTER KEDUA		
KOD	KURSUS	KREDIT	KOD	KURSUS	KREDIT
VPK3612	Kemahiran Klinikal Veterinar	2(1+1)	VPK3613	Perubatan Klinikal Veterinar I	2(2+0)
VPM3352	Parasitologi Veterinar II	2(2+0)	VPM3417	Patologi Veterinar III	4(3+1)
VPP3251	Farmakologi dan Toksikologi Veterinar	4(3+1)	VPK3702	Anestesiologi dan Surgeri Am	4(2+2)
VPM3416	Patologi Veterinar II	4(3+1)	VPK3750	Pengimejan Diagnosis Veterinar	2(1+1)
VPM3340	Virologi Veterinar	3(2+1)	VPM4430	Patologi Klinikal Veterinar	3(2+1)
VPM3361	Jangkitan dan Keimunan	2(1+1)	VPK4680	Perubatan Avian	2(2+0)
VPD4970	Siasatan Masalah Veterinar	1(0+1)	IELTS/LAX	ELEx	DK
CEL2108	English for IELTS	DK	VPD3934B	Pengurusan Haiwan Ternakan II	2(0+2)
VPD3934A	Pengurusan Haiwan Ternakan II	1(0+1)	VPD3935	Orientasi Klinikal	1(0+1)
JUMLAH		19(12+7)	JUMLAH		20(12+8)

TAHUN 4					
SEMESTER PERTAMA			SEMESTER KEDUA		
KOD	KURSUS	KREDIT	KOD	KURSUS	KREDIT
VPK3614	Perubatan Klinikal Veterinar II	3(2+1)	VPM4500	Kesihatan Awam Veterinar	4(3+1)
VPK3712	Surgeri Veterinar Sistem Badan	4(3+1)	VPK4670	Perubatan Babi	2(2+0)
VPK3801	Teriogenologi	2(2+0)	VPK4640	Perubatan Felin dan Kanin	3(3+0)
VPK3931	Amalan Klinikal dan Diagnosis I	2(0+2)	VPK3932	Amalan Klinikal dan Diagnosis II	2(0+2)
VPK4695	Perubatan Haiwan Eksotik & Hidupan Liar	2(2+0)	VPK4620	Epidemiologi Veterinar	3(2+1)
VPP3160	Statistik Gunaan dan Kaedah Penyelidikan	3(2+1)	VPK4650	Perubatan Ekuin	2(2+0)
VPK4692	Kesihatan dan Pengurusan Haiwan Akuatik	3(2+1)	VPK4660	Perubatan Ruminan	3(3+0)
VPD4945A	Amalan Luar(Klinik)	1(0+1)	VPD4941	Amalan Luar(Makmal Diagnosis)	1(0+1)
CEL/IELTS	ELEx (Ulangan)	DK	VPD4945B	Amalan Luar(Klinik)	1(0+1)
			CEL/ IELTS	ELEx (Ulangan)	DK
JUMLAH		20(13+7)	JUMLAH		21(15+6)
TAHUN 5					
SEMESTER PERTAMA			SEMESTER KEDUA		
KOD	KURSUS	KREDIT	KOD	KURSUS	KREDIT
VPD4999	Projek Ilmiah Tahun Akhir	3(0+3)	VPD4990	Sains Veterinar Gunaan	3(0+3)
VPK4943	Amalan Klinikal Veterinar I	6(0+6)	VPK4944	Amalan Klinikal Veterinar II	9(0+9)
VPP3170	Perniagaan Veterinar	3(2+1)			
VPD4971	Penyelesaian Masalah Penyakit	1(0+1)			
JUMLAH		13(2+11)	JUMLAH		12(0+12)

PELAN PENGAJIAN PELAJAR ANTARABANGSA/INTERNATIONAL STUDENT STUDY PLAN

YEAR 1					
FIRST SEMESTER			SECOND SEMESTER		
CODE	COURSE	CREDIT	CODE	COURSE	CREDIT
FEM2401	Malaysian Politics and Society	2(2+0)	PRT2009	Agriculture and Life	2(1+1)
LPM2100	Malay Language Communication	2(2+0)	VPP3211	Veterinary Anatomy I	4(2+2)
VPP3021	Veterinary Biochemistry	3(2+1)	VPP3231	Veterinary Physiology I	3(2+1)
SHW3002	Animal Agriculture	3(2+1)	VPP3130	Veterinary Nutrition	3(2+1)
VPK3910	Introduction to the Veterinary Profession	1(0+1)	KOC3433	Organizational Communication Skills	3(3+0)
MGM3101	Principles of Management	3(3+0)	LPE/LAX	ELEx	-
CEL2102	Effective Listening and Speaking	-	VPD3932	Veterinary Professional Orientation	2(0+2)
QKxxxx	Co-curriculum	1(0+1)	QKxxxx	Co-curriculum	1(0+1)
SKP3113	Philosophy and Current Issues in Civil Society	3(3+0)			
	OR				
SKP3123	Internalization of Ethics and Civilization in Malaysia	3(3+0)			
TOTAL		18(14+4)	TOTAL		18(10+8)
YEAR 2					
FIRST SEMESTER			SECOND SEMESTER		
CODE	COURSE	CREDIT	CODE	COURSE	CREDIT
VPP3212	Veterinary Anatomy II	4(2+2)	VPP3213	Veterinary Anatomy III	4(2+2)
VPP3232	Veterinary Physiology II	3(2+1)	VPM3415	Veterinary Pathology I	3(2+1)
SHW3101	Ruminant Production	3(2+1)	VPM3301	Veterinary Bacteriology & Mycology	3(2+1)
SHW3202	Non Ruminant Production	4(3+1)	VPP3233	Veterinary Physiology III	3(2+1)
VPP3271	Jurisprudence, Ethology and Animal Welfare	2(2+0)	VPM3351	Veterinary Parasitology I	3(2+1)
VPP3140	Veterinary Genetics	3(2+1)	CEL/LPE	ELEx	-
LPE2501	Academic Writing	3(3+0)	FCE3204	Thinking Skills	2(2+0)
VPD3933A	Management of Livestock I	1(0+1)	KOM3403	Public Oration	3(2+1)
			VPD3933B	Management of Livestock I	1(0+1)
TOTAL		23(16+7)	TOTAL		22(14+8)
YEAR 3					
FIRST SEMESTER			SECOND SEMESTER		
CODE	COURSE	CREDIT	CODE	COURSE	CREDIT
VPK3612	Veterinary Clinical Skills	2(1+1)	VPK3613	Veterinary Clinical Medicine I	2(2+0)
VPM3352	Veterinary Parasitology II	2(2+0)	VPM3417	Veterinary Pathology III	4(3+1)
VPP3251	Veterinary Pharmacology and Toxicology	4(3+1)	VPK3702	Anesthesiology and General Surgery	4(2+2)
VPM3416	Veterinary Pathology II	4(3+1)	VPK3750	Veterinary Diagnostic Imaging	2(1+1)
VPM3340	Veterinary Virology	3(2+1)	VPM4430	Veterinary Clinical Pathology	3(2+1)

VPM3361	Infection and Immunity	2(1+1)	VPK4680	Avian Medicine	2(2+0)
VPD4970	Veterinary Problem Investigation	1(0+1)	IELTS/LAX	ELEX	-
CEL2108	English for IELTS	-	VPD3935	Clinikal Orientation	1(0+1)
VPD3934A	Management of Livestock II	1(0+1)	VPD3934B	Management of Livestock II	2(0+2)
TOTAL		19(12+7)	TOTAL		20(12+8)
YEAR 4					
FIRST SEMESTER			SECOND SEMESTER		
CODE	COURSE	CREDIT	CODE	COURSE	CREDIT
VPK3614	Veterinary Clinical Medicine II	3(2+1)	VPM4500	Veterinary Public Health	4(3+1)
VPK3712	Veterinary Surgery of Body Systems	4(3+1)	VPK4670	Pig Medicine	2(2+0)
VPK3801	Theriogenology	2(2+0)	VPK4640	Feline and Canine Medicine	3(3+0)
VPK3931	Clinical Practice and Diagnosis I	2(0+2)	VPK3932	Clinical Practice and Diagnosis II	2(0+2)
VPK4695	Exotic Animal and Wildlife Medicine	2(2+0)	VPK4620	Veterinary Epidemiology	3(2+1)
VPP3160	Applied Statistic and Research Methods	3(2+1)	VPK4650	Equine Medicine	2(2+0)
VPK4692	Aquatic Animal Health and Management	3(2+1)	VPK4660	Ruminant Medicine	3(3+0)
VPD4945A	Extramural (Clinic)	1(0+1)	CEL/IELTS	ELEX (Repeat)	-
CEL/IELTS	ELEX (Repeat)	-	VPD4941	Extramural (Diagnostic Laboratory)	1(0+1)
			VPD4945B	Extramural (Clinic)	1(0+1)
TOTAL		20(13+7)	TOTAL		21(15+6)
YEAR 5					
FIRST SEMESTER			SECOND SEMESTER		
CODE	COURSE	CREDIT	CODE	COURSE	CREDIT
VPD4999	Final Year Project	3(0+3)	VPD4990	Applied Veterinary Science	3(0+3)
VPK4943	Veterinary Clinical Practice I	6(0+6)	VPK4944	Veterinary Clinical Practice II	9(0+9)
VPP3170	Veterinary Business	3(2+1)			
VPD4971	Problem Solving in Diseases	1(0+1)			
TOTAL		13(2+11)	TOTAL		12(0+12)

**PENDAFTARAN KURSUS PELAJAR BAHARU KEMASUKAN SEMESTER PERTAMA /
COURSES REGISTRATION OF NEW STUDENTS ADMISSION FIRST SEMESTER**

DIPLOMA UPM

<u>Bil/ No.</u>	<u>Kod/ Code</u>	<u>Nama Kursus/ Courses</u>	<u>Kredit/ Credit</u>	<u>Taraf/ Status</u>
1	SKP3112	Falsafah dan Isu Semasa/ <i>Philosophy and Current Issues</i>	2	YW
2	SKP3122	Penghayatan Etika dan Peradaban/ <i>Internalization of Ethics and Civilization</i>	2	YW
3	VPP3021	Biokimia Veterinar/ <i>Veterinary Biochemistry</i>	3	YW
4	SHW3002	Pertanian Ternakan/ <i>Animal Agriculture</i>	3	YW
5	VPK3910	Pengenalan Profesyen Veterinar/ <i>Introduction to the Veterinary Profession</i>	1	YW
6	CEL2102	Effective Listening and Speaking	DK	YW
7	MGM3101	Prinsip Pengurusan/ <i>Principles of Management</i>	3	EL
8	QKXxxx	Ko-Kurikulum/ <i>Co-curriculum</i>	1	YW

Jumlah Kredit/ *Total Credit* : 15

PEMINDAHAN KREDIT/ *CREDIT TRANSFER*:

- SKP3112/SKP3122/SKP2101/PRT2009 (dipertimbangkan bagi kursus pengajian yang sama dan lulus dengan mencapai sekurang-kurangnya gred C atau kursus setara yang lulus dengan mencapai sekurang-kurangnya gred C+/ *Credit transfers are only considered for the same course of study and pass with at least grade C or equivalent courses that pass with at least grade C+*)
- Ko-kurikulum/ *Co-curriculum*

PENTING/ *IMPORTANT* : Permohonan pemindahan kredit perlu diselesaikan selewat-lewatnya pada minggu kedua semester pertama merangkumi semua subjek yang berkenaan/ *All applications for credit transfer shall be resolved latest by the second week of the first semester covering all relevant subjects.*

Taraf/ *Status*:

ULF- Ulangan Kursus Gagal/ *Repeat Failed Course*

ULT- Ulangan Tingkatkan Pangkat/ *Repeat Upgrade Rank*

ELF- Kursus Elektif Bebas/ *Elective Courses*

ELH- Kursus Elekrif Terhad/Wajib/
Compulsory Elective Course

YW- Kursus Wajib/ *Compulsory*

AUT- Kursus Audit/ *Audit Course*

DK- Di Luar Kurikulum/ *Outside the Curriculum*

SP- Kursus/Projek yang akan diikuti lebih dari satu semester/
Courses/Projects to be attended for more than one semester

**PENDAFTARAN KURSUS PELAJAR BAHARU KEMASUKAN SEMESTER PERTAMA /
COURSES REGISTRATION OF NEW STUDENTS ADMISSION FIRST SEMESTER**

ASASI SAINS PERTANIAN (ASPER)

<u>Bil/ No.</u>	<u>Kod/ Code</u>	<u>Nama Kursus/ Courses</u>	<u>Kredit/ Credit</u>	<u>Taraf/ Status</u>
1	SKP3112	Falsafah dan Isu Semasa/ <i>Philosophy and Current Issues</i>	2	YW
2	SKP3122	Penghayatan Etika dan Peradaban/ <i>Internalization of Ethics and Civilization</i>	2	YW
3	VPP3021	Biokimia Veterinar/ <i>Veterinary Biochemistry</i>	3	YW
4	SHW3002	Pertanian Ternakan/ <i>Animal Agriculture</i>	3	YW
5	VPK3910	Pengenalan Profesyen Veterinar/ <i>Introduction to the Veterinary Profession</i>	1	YW
6	CEL2102	Effective Listening and Speaking	DK	YW
7	MGM3101	Prinsip Pengurusan/ <i>Principles of Management</i>	3	EL
8	QKXxxx	Ko-Kurikulum/ <i>Co-curriculum</i>	1	YW
	*PRT2009	Pertanian dan Kehidupan/ <i>Agriculture and Life (Sem. 2)</i>	2(1+1)	YW
		Kursus elektif untuk menggantikan PRT2009 (Sains/ Kesusasteraan/PRT2009) (Sem. 2)/ <i>Elective course to replace PRT2009 (Science / Literature / PRT2009) (Sem. 2)</i>	2	YW
Jumlah Kredit/ <i>Total Credit</i> :			<u>15</u>	

***PENGECCUALIAN KURSUS/ COURSE EXEMPTION :**

- PRT2009 (minima gred C subjek ASA0104 dan ASA0105) **TETAPI** perlu diganti dengan mengambil kursus lain atau mengambil kursus Pertanian Dan Kehidupan (PRT2009)/ *PRT2009 (minimum of grade C for subjects ASA0104 and ASA0105) BUT should be replaced by taking another course or taking Agriculture and Life course (PRT2009).*

PENTING/ IMPORTANT : Permohonan pemindahan kredit perlu diselesaikan selewat-lewatnya pada minggu kedua semester pertama merangkumi semua subjek yang berkenaan/ *All applications for credit transfer shall be resolved latest by the second week of the first semester covering all relevant subjects.*

Taraf/ Status:

ULF-	Ulangan Kursus Gagal/ <i>Repeat Failed Course</i>	YW-	Kursus Wajib/ <i>Compulsory</i>
ULT-	Ulangan Tingkatkan Pangkat/ <i>Repeat Upgrade Rank</i>	AUT-	Kursus Audit/ <i>Audit Course</i>
ELF-	Kursus Elektif Bebas/ <i>Elective Courses</i>	DK-	Di Luar Kurikulum/ <i>Outside the Curriculum</i>
ELH-	Kursus Elekrif Terhad/Wajib/ <i>Compulsory Elective Course</i>	SP-	Kursus/Projek yang akan diikuti lebih dari satu semester/ <i>Courses/Projects to be attended for more than one semester</i>

**PENDAFTARAN KURSUS PELAJAR BAHARU KEMASUKAN SEMESTER PERTAMA
2020/2021/
COURSES REGISTRATION OF NEW STUDENTS ADMISSION FIRST SEMESTER**

MATRIKULASI / STPM

<u>Bil/ No.</u>	<u>Kod/ Code</u>	<u>Nama Kursus/ Courses</u>	<u>Kredit/ Credit</u>	<u>Taraf/ Status</u>
1	SKP3112	Falsafah dan Isu Semasa/ <i>Philosophy and Current Issues</i>	2	YW
2	SKP3122	Penghayatan Etika dan Peradaban/ <i>Internalization of Ethics and Civilization</i>	2	YW
3	VPP3021	Biokimia Veterinar/ <i>Veterinary Biochemistry</i>	3	YW
4	SHW3002	Pertanian Ternakan/ <i>Animal Agriculture</i>	3	YW
5	VPK3910	Pengenalan Profesyen Veterinar/ <i>Introduction to the Veterinary Profession</i>	1	YW
6	MGM3101	Prinsip Pengurusan/ <i>Principles of Management</i>	3	EL
7	QKXxxx	Ko-Kurikulum/ <i>Co-curriculum</i>	1	YW
8	CEL2102	Effective Listening and Speaking	DK	YW

Jumlah Kredit/ *Total Credit* : 15

#Rujuk Pakej ELEX (English Language Experience) untuk pengambilan kursus Bahasa Inggeris yang sesuai/ *Refer to the ELEX (English Language Experience) Package for taking the relevant English course.*

Taraf/ *Status*:

ULF-	Ulangan Kursus Gagal/ <i>Repeat Failed Course</i>	YW-	Kursus Wajib/ <i>Compulsory</i>
ULT-	Ulangan Tingkatkan Pangkat/ <i>Repeat Upgrade Rank</i>	AUT-	Kursus Audit/ <i>Audit Course</i>
ELF-	Kursus Elektif Bebas/ <i>Elective Courses</i>	DK-	Di Luar Kurikulum/ <i>Outside the Curriculum</i>
ELH-	Kursus Elekrif Terhad/Wajib/ <i>Compulsory Elective Course</i>	SP-	Kursus/Projek yang akan diikuti lebih dari satu semester/ <i>Courses/Projects to be attended for more than one semester</i>

**PENDAFTARAN KURSUS PELAJAR BAHARU KEMASUKAN SEMESTER PERTAMA /
COURSES REGISTRATION OF NEW STUDENTS ADMISSION FIRST SEMESTER**

INTERNATIONAL STUDENT

No.	Code	Courses	Credit	Status
1	FEM2401	Malaysian Politics and Society	2(2+0)	YW
2	LPM2100	Malay Language Communication	2(2+0)	YW
3	VPP3021	Veterinary Biochemistry	3(2+1)	YW
4	SHW3002	Animal Agriculture	3(2+1)	YW
5	VPK3910	Introduction to the Veterinary Profession	1(0+1)	YW
6	MGM3101	Principles of Management	3(3+0)	EL
7	CEL2102	Effective Listening and Speaking	-	YW
8	QKxxxx	Co-curriculum	1(0+1)	YW
9	SKP3113	Philosophy and Current Issues in Civil Society	3(3+0)	YW

OR

SKP3123	Internalization of Ethics and Civilization in Malaysia	3(3+0)	YW
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Total Credit : 18

Status:

YW - Compulsory

ELF - Elective Courses

ULF - Repeat Failed Course

ELH - Compulsory Elective Course

**PEMINDAHAN KREDIT/PENGECCUALIAN KURSUS/
CREDIT TRANSFER/COURSE EXEMPTION**

1. KELAYAKAN DIPLOMA/ASASI/ DIPLOMA/FOUNDATION QUALIFICATION

KURSUS DIKECCUALIKAN/ COURSE EXEMPTED	KREDIT/ CREDIT	SYARAT PEMINDAHAN KREDIT/ PENGECCUALIAN/ CREDIT TRANSFER/EXEMPTION CONDITIONS			
		Kursus Setara/ Equivalent Course	Kredit/ Credit	Catatan/ Remark	
SKP 2203 Tamadun Islam & Tamadun Asia/ <i>Islamic Civilization & Asian Civilization</i>	2(2+0)	SKP 2203 Tamadun Islam & Tamadun Asia/ <i>Islamic Civilization & Asian Civilization</i>	2(2+0)	Lulus/ Pass*	
SKP 2101 Kenegaraan Malaysia/ <i>Malaysian Nationhood</i>	3(3+0)	SKP 2101 Kenegaraan Malaysia/ <i>Malaysian Nationhood</i>	3(3+0)	Lulus/ Pass*	
SKP 2204 Hubungan Etnik/ <i>Ethnic Relations</i>	2(2+0)	SKP 2204 Hubungan Etnik/ <i>Ethnic Relations</i>	2(2+0)	Lulus/ Pass*	
PRT 2009 Pertanian dan Kehidupan/ <i>Agriculture and Life</i>	2(2+0)	Bergraduat dari Program/ <i>Graduated with Program:</i> 1. Diploma Kesihatan Haiwan dan Peternakan/ <i>Diploma in Animal Health and Husbandry</i> 2. Asasi Sains Pertanian (ASPER)/ <i>Foundation Studies for Agricultural Science</i> 3. Diploma Pertanian/ <i>Diploma in Agriculture</i> 4. Diploma Perhutanan/ <i>Diploma in Forestry</i>		Minit Mesyuarat Ke-487 SENAT (Mesyuarat Khas) pada 29.6.2006/ <i>Minutes of the 487th Senate Meeting (Special Meeting) on 29.6.2006</i>	
		Asasi Sains Pertanian (ASPER)/ <i>Foundation Studies for Agricultural Science</i> -pengeccualian kursus tetapi bukan sebagai pemindahan kredit. Pelajar perlu menggantikan kredit dengan kursus yang lain atau mengambil kursus Pertanian Dan Kehidupan (PRT2009)/ <i>course exemption but not as a credit transfer. Students need to replace credit with another course or take an Agriculture and Life course (PRT2009)</i>		Minit Senat UPM ke-639 pada 12 Oktober 2017/ <i>639th UPM Senate Minutes on 12 October 2017</i>	
Ko-kurikulum/ <i>Co-curriculum</i>	2	Telah mengambil 2 kredit kursus Ko-kurikulum dan lulus/ <i>Has taken 2 credits of Co-curriculum courses and passed.</i>			

*Pemindahan kredit hanya dipertimbangkan bagi kursus pengajian yang sama dan lulus dengan mencapai sekurang-kurangnya gred C atau kursus setara yang lulus dengan mencapai sekurang-kurangnya gred C+/
Credit transfers are only considered for the same course of study and pass with at least grade C or equivalent courses that pass with at least grade C+.

NOTA/ NOTE: Kursus berkenaan telah diambil dalam tempoh tidak melebihi lima (5) tahun/
The course has been taken for a period not exceeding five (5) years.

**PERMOHONAN PEMINDAHAN KREDIT/PENGECCUALIAN KURSUS/
APPLICATION FOR CREDIT TRANSFER/COURSE EXEMPTION**

Sila kemukakan salinan *softcopy* berikut/ *Please submit a softcopy of the following:-*

1. Keputusan MUET/ *MUET result*
2. Sijil SPM/ *SPM certificate*
3. Sijil STPM/ *STPM certificate*
4. Transkrip Diploma/Matrikulasi dan lain-lain sijil berkaitan untuk pengecualian/
Diploma/Matriculation transcripts and other related certificates for exemption

Kursus yang hendak dipindahkan kredit atau dikecualikan hendaklah dibuat secara online melalui e-SMP untuk kelulusan Dekan Fakulti Kursus yang dipohon dan perlu diselesaikan selewat-lewatnya pada minggu kedua semester pertama merangkumi semua subjek yang berkenaan/ *Courses to be transferred credit or exempt must be made online through e-SMP for the approval of the Dean of the Faculty of the Course applied for and must be completed no later than the second week of the first semester covering all relevant subjects.*

SINOPSIS KURSUS/ COURSES SYNOPSIS

Jabatan Sains Prakilinikal Veterinar/ Department of Veterinary Preclinical Sciences

VPP3021 Biokimia Veterinar/ *Veterinary Biochemistry* 3 (2+1)

Prasyarat/ Prerequisite : Tiada/Null

Kursus ini merangkumi aspek biokimia asas termasuk mekanismanya dalam metabolisme sel, tisu dan organ dalam badan haiwan normal dan abnormal untuk menghubungkan kait dengan pengawalan badan haiwan normal dan memahami peranannya dalam penyakit haiwan dan diagnosa penyakit.

This course covers aspects of basic biochemistry which include its mechanisms in the cell, tissue and organ metabolism in the normal and abnormal animal body and to link with regulation of the normal animal body and understanding their roles in animal disease and diagnosis

VPP3130 Pemakanan Veterinar/ *Veterinary Nutrition* 3 (2+1)

Prasyarat/ Prerequisite : VPP3021

Kursus ini merangkumi ciri dan kepentingan nutrien dalam pemakanan haiwan, pengambilan rela serta keperluan nutrien oleh pelbagai jenis haiwan bela-jinak, haiwan makmal dan eksotik. Keseimbangan dan metabolisme tenaga makanan, kaedah merumus rangsum dan penentuan nilai cerna bahan makanan dibincangkan.

This course encompasses the characteristics and importance of nutrients in animal nutrition, voluntary intake as well as nutrient requirements of domesticated, laboratory and exotic animals. Food energy metabolism and balance, feed formulation and digestibility determination techniques are discussed.

VPP3140 Genetik Veterinar/ *Veterinary Genetics* 3 (2+1)

Prasyarat/ Prerequisite : Tiada/Null

Kursus ini merangkumi prinsip pewarisan genetik dan genetik populasi dan kuantitatif untuk pembiakbakaan dan pemilihan haiwan bela jinak. Keadah pemilihan, sistem pembiakbakaan dan kecacatan genetik dibincang.

This course encompasses the principles of genetic inheritance and population and quantitative genetics in the breeding and selection of domestic animals. Selection methods, crossbreeding systems and genetic defects are discussed.

VPP3160 Statistik Gunaan dan Kaedah Penyelidikan/ *Applied Statistics and Research Methods* 3 (2+1)

Prasyarat/ Prerequisite: Tiada/Null

Kursus ini meliputi perancangan, pengurusan sumber, pelaksanaan serta tafsiran hasil penyelidikan. Penekanan akan diberikan kepada pembinaan kerangka penyelidikan yang tahan-uji dan penilaian kebolehpercayaan penyelidikan.

This course covers planning, resource management, execution as well as interpretation of research outcomes. Emphasis will be placed on understanding of the requirements for constructing defensible research projects as well as being able to assess the validity of research reports.

Prasyarat/ Prerequisite: Tiada/Null

Kursus ini meliputi konsep, prinsip, pengetahuan dan aplikasi pengurusan dalam perniagaan veterinar. Topik merangkumi pengagihan sumber, prinsip ekonomi, kos penyakit dan kesihatan dalam pengurusan dan produksi haiwan, kaedah ekonometri, analisis kos-faedah, analisis keputusan dan perancangan perniagaan veterinar.

This course covers concepts, principles, knowledge and application of management in veterinary business. Topics include resource allocation, economic principles, cost of diseases and health in animal management and production, econometric methods, cost-benefit analysis, decision analysis, and veterinary business planning.

VPP3211 Anatomi Veterinar I/ *Veterinary Anatomy 1*

4 (2+2)

Prasyarat/ Prerequisite : Tiada/Null

Kursus ini merangkumi pelbagai istilah yang sering digunakan dalam anatomi, histologi dan embriologi veterinar. Pembentukan awal embrio, struktur sel, struktur histologi empat tisu asas, tisu hemopoetik dan anatomi topografi haiwan domestik diuraikan.

This course encompasses various terminologies commonly used in veterinary anatomy, histology and embryology. The development of early embryo, cell structure, histological structure of four basic tissues, hemopoetic tissue and the topographic anatomy of domestic animal are explained.

VPP3212 Anatomi Veterinar II/ *Veterinary Anatomy II*

4 (2+2)

Prasyarat/ Prerequisite : VPP3211

Kursus ini merangkumi pembentukan, struktur histologi dan anatomi sistem kardiovaskular, pencernaan, urinari dan pernafasan. Kelas amali merangkumi diseksi, pemeriksaan spesimen segar dan diawet serta pemeriksaan slaid histologi sistem tersebut diatas organ badan. Penekanan diberikan kepada hubungkait struktur dan fungsi sistem yang berkenaan.

This course encompasses the development, histological and anatomical structures of the cardiovascular, digestive, urinary and respiratory systems. Practical classes encompass dissection, examination of fresh and fixed specimens and examination of histological slides of the systems mentioned above. Emphasis is given to the structure and functional relationship of the above systems.

VPP3213 Anatomi Veterinar III/ *Veterinary Anatomy III*

4 (2+2)

Prasyarat/ Prerequisite : VPP3211

Kursus ini merangkumi pembentukan, anatomi kasar dan histologi bagi pembiakan, integumen, endokrina dan organ-organ deria dengan memberi penekanan kepada hubungkait struktur dan fungsi sistem tersebut di atas.

This course encompasses the development, gross anatomical structures and histology of the nervous, reproductive, integument, endocrine systems and the sense organs with emphasis on the structural-functional relationship of the above systems.

VPP3231 Fisiologi Veterinar I/ *Veterinary Physiology I* 3 (2+1)

Prasyarat/ Prerequisite : Tiada/Null

Kursus ini merangkumi fungsi sel dan tisu boleh uja, serta menghuraikan fungsi sistem hemopoiesis dan imun. Prinsip-prinsip yang diikuti dalam kuliah akan diperjelaskan dalam kelas amali.

This course encompasses the functions of the cell and excitable tissues and also describes the functions of the haemopoietic and immune systems. The principles followed in the lectures will be illustrated in laboratory classes.

VPP3232 Fisiologi Veterinar II/ *Veterinary Physiology II* 3 (2+1)

Prasyarat/ Prerequisite : VPP3231

Kursus ini merangkumi fungsi, mekanisme pengawalan, pengawalaturan dan penyelarasan sistem kardiovesel, pencernaan, renal dan pernafasan haiwan. Tumpuan akan diberikan kepada aplikasi pengetahuan, fungsi dan peranan sistem tersebut dalam senggaraan homeostasis.

This course encompasses the functions, mechanisms of control, regulation and coordination of the animal cardiovascular, digestive, renal and respiratory systems. The application of the knowledge, functions and roles of the systems mentioned in the maintenance of homeostasis are emphasized.

VPP3233 Fisiologi Veterinar III/ *Veterinary Physiology III* 3 (2+1)

Prasyarat/ Prerequisite : VPP3231

Kursus ini merangkumi fungsi, mekanisme pengawalan, pengawalaturan dan penyelarasan sistem saraf, endokrin, pembiakan haiwan serta prinsip asas fisiologi persekitaran dan tegasan. Tumpuan diberi kepada aplikasi pengetahuan, fungsi dan peranan sistem tersebut dalam senggaraan homeostasis.

This course encompasses the functions, mechanisms of control, regulation and coordination of the animal nervous, endocrine, reproductive systems as well as basic principles of environmental and stress physiology. The application of the knowledge, functions and roles of the systems mentioned in the maintenance of homeostasis is emphasized.

VPP3251 Farmakologi dan Toksikologi Veterinar / *Veterinary Pharmacology And Toxicology* 4 (3+1)

Prasyarat/ Prerequisite : VPP3233

Kursus ini merangkumi penggunaan drug berdasarkan prinsip farmakologi dan toksikologi dengan keutamaan kepada kesan drug dan racun terhadap sistem biologi, mekanisma dan tapak tindakan haiwan. Aplikasi terapeutik, kesan ketoksikan, perbezaan respon perumah kepada agen terapeutik, faktor mempengaruhi keberkesanan drug, ketoksikan dan prinsip umum rawatan keracunan.

This course covers use of drugs based on principles of pharmacology and toxicology with emphasis given to effects of drugs and poisons on biologic systems, their mechanisms and sites of action. Therapeutic applications, toxicity effects, differences in host response to therapeutic agents, factors influencing the effectiveness, toxicity and the general principles of treatment of poisoning.

VPP3271 Jurisprudens, Etologi Dan Kebajikan Haiwan/ *Jurisprudence Ethology And Animal Welfare* 2 (2+0)

Prasyarat/ Prerequisite : Tiada/Null

Kursus ini merangkumi aspek tingkah laku haiwan, penyebab tingkah laku dan implikasinya ke atas pengurusan, produksi, kesihatan dan kebajikan. Undang-undang dan peraturan yang mengawal selia pemeliharaan haiwan dan perkhidmatan veterinar di Malaysia juga dibincangkan.

This course encompasses aspects of animal behaviour, causes of behaviour and their implications on animal management, production, health and welfare. The laws and regulations that govern animal husbandry and veterinary service in Malaysia are also discussed

Jabatan Pengajian Klinikal Veterinar/ Department of Veterinary Clinical Studies

VPK3612 Kemahiran Klinikal Veterinar / *Veterinary Clinical Skills* 2 (1+1)

Prasyarat Prerequisite : Tiada/Null

Kursus ini merangkumi kemahiran mendapatkan sejarah kesihatan pesakit, kaedah pemeriksaan fizikal menyeluruh, merekod dan menilai penemuan serta mengenal pasti dan membezakan berbagai status sistemik umum dalam haiwan yang berpenyakit. Kaedah pengekangan, pengubatan dan penjagaan kesihatan pesakit diberi penekanan.

This course encompasses the skills in obtaining patient medical history, performing complete physical examination, recording and evaluating the findings as well as identifying and distinguishing between various general systemic states common in diseased animals. Restraining techniques, treatment and health care for patients are emphasized

VPK3613 Perubatan Klinikal Veterinar I / *Veterinary Clinical Medicine I* 2 (2+0)

Prasyarat/ Prerequisite: VPK3612

Kursus ini memperkenalkan konsep proses penyakit dalam disfungsi sistem badan haiwan. Manifestasi penyakit, patogenesis, diagnosis, rawatan dan pengurusan klinikal termasuk pembedahan dan penggunaan ubat yang bersesuaian dibincangkan.

This course introduces the concepts of disease processes in the dysfunction of body systems of animals. Disease manifestation, pathogenesis, diagnosis, treatment and clinical management of diseases including surgery and the appropriate use of drugs agents are discussed

VPK3614 Perubatan Klinikal Veterinar II/ *Veterinary Clinical Medicine II* 3 (2+1)

Prasyarat/ Prerequisite: VPK3612

Kursus ini memperkenalkan konsep proses penyakit dalam disfungsi sistem badan haiwan bela jinak. Manifestasi, patogenesis, diagnosis, rawatan dan pengurusan klinikal penyakit termasuk pembedahan dan penggunaan agen kemoterapi dibincangkan

This course introduces the concept of disease processes in the body systems dysfunction of domestic animals. Disease manifestation, pathogenesis, diagnosis, treatment and clinical management of diseases including surgery and the use of chemotherapeutic agents are discussed

VPK3702 Anestesiologi dan Bedah Umum/ *General Surgery and Anaesthesiology* 4 (2+2)

Prasyarat/ Prerequisite : VPP3251

Kursus ini merangkumi asas bedah umum dan anestesiologi veterinar. Seliotomi dan pengkajian pada anjing atau kucing digunakan untuk latihan bedah umum dan anestesia. Teknik bedah umum yang melibatkan sistem integumen turut dibincangkan.

This course encompasses the basics of veterinary surgery and anaesthesiology. Celiotomy and neuter in dogs or cats are used to practise the surgical and anaesthetic procedures. Surgical techniques involving the integument system are discussed.

VPK3712 Bedah Veterinar Sistem Badan/ *Veterinary Surgery of the Body Systems* 4 (3+1)

Prasyarat/ Prerequisite : VPK3702

Kursus ini merangkumi pelbagai keutamaan pada sistem badan haiwan kesayangan dan haiwan besar dan pengurusan bedah umum.

This course deals with the various affections of the different body systems of small and large animals and their surgical management.

VPK3750 Pengimejan Diagnosis Veterinar/ *Veterinary Diagnostic Imaging* 2 (1+1)

Prasyarat/ Prerequisite: VPP3213

Kursus ini membekalkan pengenalan am fizik sinaran, prinsip keselamatan sinaran, teknik pengambilan dan pemprosesan radiograf. Penekanan diberi kepada kemahiran asas dan pentafsiran radiograf. Ciri-ciri radiologi lazim pelbagai penyakit haiwan akan dibincang. Teknik pengimejan alternatif veterinar seperti *ultrasound*, tomografi berkomputer (CT), pengimejan resonans magnet (MRI) dan perubatan nuklear diperkenalkan.

This course provides a general introduction to the physics of radiation, principles of radiation safety, techniques of taking and processing radiographs. The basic skills of radiography and the interpretation of radiographs are emphasized. Common radiological features of various diseases in domestic animals are discussed. Veterinary alternative imaging techniques such as (ultrasound, computed tomography (CT), magnetic resonance imaging (MRI) and nuclear medicine are introduced.

VPK3801 Teriogenologi / *Theriogenology* 2 (2+0)

Prasyarat/ Prerequisite : VPM3417

Kursus ini merangkumi kajian tentang pembiakan; fisiologi dan patologi sistem pembiakan haiwan jantan dan betina. Penekanan diberikan kepada obstetrik, andrologi dan ketidaksuburan.

This course encompasses studies on reproduction, including the physiology and pathology of the male and female reproductive systems. Emphasis is given to obstetrics, andrology and infertility

VPK3910 Pengenalan Profesion Veterinar/ *Introduction to the Veterinary Profession* 1 (0+1)

Prasyarat/ Prerequisite : Tiada/Null

Kursus ini memperkenalkan profesion veterinar, sejarahnya, badan profesional veterinar kebangsaan dan antarabangsa, pelbagai pekerjaan dalam profesion peranan, etika profesional serta peluang dan tanggungjawab berkaitan. Spesies haiwan lazim, baka, keperluan asas, kebajikan dan organisasi kebajikan haiwan, pengendalian serta ikatan manusia-haiwan diperkenalkan.

This course introduces the veterinary profession, its history, the main international and national professional bodies, the diversity of occupations within the profession and the professional roles and ethics of veterinarians as well as the associated opportunities and responsibilities. The common animal species, breeds, their basic needs, welfare, animal-welfare organizations, handling as well as the human-animal bond are introduced.

VPK3931 Amalan Klinik dan Diagnosis I/ *Clinical Practice and Diagnosis I* 2 (0+2)

Prasyarat/ Prerequisite : VPK3612

Kursus ini memberi pengenalan kepada aktiviti rutin serta pengurusan amalan klinik dan makmal diagnosa veterinar dimana pelajar digilirkan. Pelajar mengambil bahagian dalam aktiviti amalan klinik atau makmal, dan merekodkan pelaksanaan prosedur yang tersenarai dalam portfolio amalan. Penekanan diberikan kepada pengendalian, pemeriksaan fizikal dan rawatan pada haiwan, serta kemahiran berkomunikasi.

This course introduces the routines and management of veterinary clinical practice and diagnostic laboratories where students are rotated. Students participate in the daily activities of the clinics and laboratories, and keep record of the procedures carried out in their clinical practice portfolio. Emphasis is given on animal handling, physical examination and medication, as well as communication skills.

VPK3932 Amalan Klinik dan Diagnosis II/ *Clinical Practice and Diagnosis II* 2 (0+2)

Prasyarat/ Prerequisite : VPK3931

Kursus ini memberi pengenalan kepada aktiviti rutin serta pengurusan amalan klinik dan makmal diagnosa veterinar dimana pelajar digilirkan. Pelajar mengambil bahagian dalam aktiviti amalan klinik atau makmal, dan merekodkan pelaksanaan prosedur yang tersenarai dalam portfolio amalan. Penekanan diberikan kepada pengendalian, pemeriksaan fizikal dan rawatan pada haiwan, serta kemahiran berkomunikasi.

This course introduces the routines and management of veterinary clinical practice and diagnostic laboratories where students are rotated. Students participate in the daily activities of the clinics and laboratories, and keep record of the procedures carried out in their clinical practice portfolio. Emphasis is given on animal handling, physical examination and medication, as well as communication skills.

VPK4620 Epidemiologi Veterinar/ *Veterinary Epidemiology* 3 (2+1)

Prasyarat/ Prerequisite : Tiada/Null

Kursus ini merangkumi konsep dan prinsip epidemiologi dan kebolehan mengaplikasikannya untuk menyasat isu-isu kesihatan haiwan melalui penilaian atau analisis kritikal kajian epidemiologi.

This course covers concepts and principles of epidemiology and ability to apply this to investigation of animal health issues and critical evaluation or analysis of epidemiological studies.

VPK4640 Perubatan Felin dan Kanin/ *Feline and Canine Medicine* 3 (3+0)

Prasyarat/ Prerequisite : VPK3614

Kursus ini merangkumi etiologi, epidemiologi, patogenesis, petanda klinikal, diagnosis, rawatan, kawalan, pencegahan bagi sindrom klinikal dan penyakit kanin dan felin yang lazim dan penting. Tindakan dan penggunaan ubat yang berkaitan untuk rawatan serta penjagaan kesihatan diulaskan.

This course encompasses the aetiology, epidemiology, pathogenesis, clinical signs, diagnosis, treatment, control, prevention and prophylaxis of common and important canine and feline clinical syndromes and diseases. Relevant drugs for treatment as well as patient nursing care are reviewed.

VPK4650 Perubatan Ekuin/ *Equine Medicine*

2 (2+0)

Prasyarat/ Prerequisite : VPK3614

Kursus ini merangkumi pendekatan secara sistematik ke atas penyiasatan sindrom klinikal pada ekuin. Etiologi, epidemiologi, patogenesis, petanda klinikal, diagnosis, rawatan, kawalan, pencegahan dan profilaksis penyakit diuraikan. Tindakan dan penggunaan ubat yang sesuai untuk rawatan serta penjagaan kesihatan diliputi.

This course covers systematic approaches to investigate clinical syndromes in equine. The aetiology, epidemiology, pathogenesis, clinical signs, diagnosis, treatment, control, prevention and prophylaxis of these diseases are described. Actions and uses of relevant drugs for treatment as well as nursing care are reviewed.

VPK4660 Perubatan Ruminan/ *Ruminant Medicine*

3 (3+0)

Prasyarat/ Prerequisite : VPK3614

Kursus ini merangkumi etiologi, epidemiologi, patogenesis, petanda klinikal, diagnosis, rawatan, kawalan, pencegahan bagi sindrom klinikal dan penyakit ruminan yang lazim dan penting. Tindakan dan penggunaan ubat yang berkaitan untuk rawatan serta penjagaan kesihatan diulaskan.

This course encompasses the aetiology, epidemiology, pathogenesis, clinical signs, diagnosis, treatment, control, prevention and prophylaxis of common and important ruminant clinical syndromes and diseases. Relevant drugs for treatment as well as patient nursing care are reviewed.

VPK4670 Perubatan Babi/ *Pig Medicine*

2 (2+0)

Prasyarat/ Prerequisite : VPK3614

Kursus ini merangkumi penyiasatan sindrom klinikal pada babi, termasuk penyakit yang lazim dan penting, dengan penekanan terhadap penyakit yang terdapat di Malaysia. Etiologi, epidemiologi, patogenesis, petanda klinikal, diagnosis, rawatan, kawalan, cara pencegahan dan profilaksis penyakit dibincangkan.

This course encompasses investigation of clinical syndromes in pigs, including common and important diseases, with emphasis to diseases found in Malaysia. Etiology, epidemiology, pathogenesis, clinical symptoms, diagnosis, treatment, control, prevention and prophylaxis of diseases are discussed.

VPK4680 Perubatan Avian/ *Avian Medicine*

2 (2+0)

Prasyarat/ Prerequisite : VPK3614

Kursus ini merangkumi etiologi, epidemiologi, patogenesis, petanda klinikal, diagnosis, rawatan, kawalan, pencegahan bagi sindrom klinikal dan penyakit avian yang lazim dan penting. Tindakan dan penggunaan ubat yang berkaitan untuk rawatan serta penjagaan kesihatan diulaskan.

This course encompasses the aetiology, epidemiology, pathogenesis, clinical signs, diagnosis, treatment, control, prevention and prophylaxis of common and important avian clinical syndromes and diseases. Relevant drugs for treatment as well as patient nursing care are reviewed.

VPK4692 Kesihatan Dan Pengurusan Haiwan Akuatik/ *Aquatic Animal Health and Management* 3 (2+1)

Prasyarat/ Prerequisite : Tiada/Null

Kursus ini merangkumi pelbagai aspek pengurusan kesihatan haiwan akuatik yang dikultur, dimana penekanan khusus dalam spesis ikan. Perkaitan di antara agen penyakit, perubahan klinikal dan patologi dan persekitaran akan dibincangkan. Prosedur makmal, rawatan, anestesia, pembedahan, ujian diagnosis cepat, strategi pemvaksinan, dan penggunaan pengimunorangsangan dan fungsi probiotik dalam memperbaiki persekitaran juga dipertengahkan

This course encompasses various aspects of management of cultured aquatic animals with special emphasize on fish species. The relationship between the disease agents, clinical and pathological changes and environment will be discussed. Laboratory procedures, treatment, anesthesia, rapid diagnostic tests, vaccination strategies and the use of immunostimulant and probiotics to improve the environment will be highlighted

VPK4695 Perubatan Haiwan Eksotik & Hidupan Liar/ *Exotic Animal and Wildlife Medicine* 2 (2+0)

Prasyarat/ Prerequisite : VPK3614

Kursus ini merangkumi asas saintifik pemuliharaan, pengurusan dan rawatan penyakit berjangkit dan bukan berjangkit hidupan liar lepas bebas dan hidupan liar tangkapan termasuk unggas, primat bukan manusia, rodent dan haiwan eksotik.

This course covers the scientific basis of conservation, management, as well as treatment of infectious and non-infectious diseases of captive and free-ranging wildlife which includes avian, non-human primates, rodents and exotic animals

VPK4943 Amalan Klinikal Veterinar I/ *Veterinary Clinical Practice I* 6 (0+6)

Prasyarat/ Prerequisite : VPK3932

Kursus ini merupakan putaran berorientasikan amalan yang merangkumi diagnosis, rawatan dan kawalan penyakit. Putaran klinik ini merangkumi amalan di klinik dan hospital haiwan kesayangan, haiwan besar, babi, ekuin, akuatik dan avian; makmal seperti patologi klinikal, bakteriologi dan post-mortem. Amalan ini memberi pendedahan, kecekapan dan keyakinan dalam pengurusan kes veterinar.

This course is a practice-oriented rotation encompassing diagnosis, treatment and control of diseases. The rotations include clinic and hospital practices for small and large animals, swine, equine, aquatic and avian; laboratories such as clinical pathology, bacteriology and post-mortem. These practices provide exposure, competency and confidence in managing veterinary cases.

VPK4944 Amalan Klinikal Veterinar II/ *Veterinary Clinical Practice II* 9 (0+9)

Prasyarat/ Prerequisite : VPK4943

Kursus ini merupakan putaran berorientasikan amalan yang merangkumi diagnosis, rawatan dan kawalan penyakit. Putaran klinik ini merangkumi amalan di klinik dan hospital haiwan kesayangan, haiwan besar, babi, ekuin, akuatik dan avian; makmal seperti patologi klinikal, bakteriologi dan post-mortem. Amalan ini memberi pendedahan, kecekapan dan keyakinan dalam pengurusan kes veterinar.

This course is a practice-oriented rotation encompassing diagnosis, treatment and control of diseases. The rotations include clinic and hospital practices for small and large animals, swine, equine, aquatic and avian; laboratories such as clinical pathology, bacteriology and post-mortem. These practices provide exposure, competency and confidence in managing veterinary cases

Jabatan Patologi dan Mikrobiologi Veterinar/ Department of Veterinary Pathology & Microbiology

VPM3301 Bakteriologi Dan Mikologi Veterinar/ *Veterinary Bacteriology and Mycology* 3 (2+1)

Prasyarat/ Prerequisite : Tiada/Null

Kursus ini merangkumi konsep dan prinsip dalam bidang bakteriologi dan mikologi serta peranan bakteria dan kulat dalam menyebabkan penyakit. Penekanan diberikan kepada ciri khusus organisma, mekanisme menyebabkan penyakit, penyebaran penyakit, diagnosis makmal dan cara pencegahan dan pengawalan penyakit.

This course encompasses the concepts and principles in bacteriology and mycology and the role of bacteria and fungi in causing diseases. Emphasis is given to special characteristics of the organisms, their mechanism for causing diseases, transmission of the disease, laboratory diagnosis and, methods for the control and prevention of diseases

VPM3340 Virologi Veterinar/ *Veterinary Virology* 3 (2+1)

Prasyarat/ Prerequisite : Tiada/Null

Kursus ini merangkumi konsep dan prinsip dalam bidang virologi, peranan virus dalam menyebabkan penyakit, jenis virus yang menyebabkan penyakit pada haiwan serta penekanan terhadap diagnosis penyakit virus.

This course encompasses the concepts and principles in virology, the role of virus in causing diseases, types of viruses that cause disease in animals and diagnosis of common viral diseases are emphasized.

VPM3351 Parasitologi Veterinar I/ *Veterinary Parasitology I* 3 (2+1)

Prasyarat/ Prerequisite : Tiada/ Null

Kursus ini merangkumi pengenalan parasit yang penting pada haiwan domestik, kitaran hidup kumpulan parasit, kesan patologi parasit, patogenesis dan diagnosis penyakit parasit yang biasa ditemui diberi penekanan.

This course encompasses identification of important parasites found in domestic animals, the life cycles of groups of parasites, pathological effects of parasites, pathogenesis and diagnosis of common parasitic diseases are emphasized.

VPM3352 Parasitologi Veterinar II/ *Veterinary Parasitology II* 2 (2+0)

Prasyarat/ Prerequisite : VPM3351

Kursus ini merangkumi masalah parasit yang biasa berlaku, pertalian antara perumah, parasit dan persekitaran, tindakbalas perumah terhadap parasit dan ketahanan parasit terhadap drug, mengurangkan kesan parasit dengan menyepadukan epidemiologi dan pengurusan ternakan

This course encompasses common parasitic problems, relationship between host, parasite and environment, host immune response against the parasites and parasite resistance against drugs, minimising the effects of parasites through integration of epidemiology and husbandry.

VPM3415 Patologi Veterinar I/ *Veterinary Pathology I*

3 (2+1)

Prasyarat/ Prerequisite : VPP3211, VPP3231

Kursus ini merangkumi konsep proses penyakit dan tindakbalas tisu terhadap kecederaan, lesi makroskopi dan mikroskopi pelbagai kumpulan dan jenis lesi. Perkembangan setiap lesi dan patogenesis penyakit akan dibincangkan serta pendedahan kepada "hands-on" teknik post mortem.

This course encompasses the concept of disease process and tissue reactions to injury, gross and microscopic lesions of the various groups and types of lesions. The development of each lesion and pathogenesis of disease will be discussed as well as exposure to hands-on post mortem techniques.

VPM3416 Patologi Veterinar II/ *Veterinary Pathology II*

4 (3+1)

Prasyarat/ Prerequisite : VPM3415

Kursus ini merangkumi perhubungan lesi makroskopi dan mikroskopi penting dalam penyakit sistem pernafasan, pencernaan, saraf, hemopoiesis serta endokrin serta penyebab dan petanda klinikal. Patogenesis, patofisiologi dan diagnosis bagi penyakit/keadaan dan pendedahan kepada teknik post mortem secara *hands-on* bagi setiap sistem.

This course encompasses the relationship of the important macroscopic and microscopic lesions, aetiology and clinical signs in diseases of the respiratory, digestive, nervous, haemopoietic and endocrine systems. The pathogenesis, pathophysiology and diagnosis of the disease/condition will also be discussed as well as hands-on exposure to post mortem techniques in each system.

VPM3417 Patologi Veterinar III/ *Veterinary Pathology III*

4 (3+1)

Prasyarat/ Prerequisite : VPM3416

Kursus ini merangkumi perhubungan lesi makroskopi dan mikroskopi penting dengan penyakit yang berlaku dalam sistem integumentari, urinari, kardiovesel, pembiakan serta muskuloskeletal dengan penyebab dan petanda klinikal. Patogenesis, patofisiologi, diagnosis bagi penyakit/keadaan juga dibincangkan dan pemeriksaan post mortem.

This course encompasses the relationship of the important macroscopic and microscopic lesion, aetiology and clinical signs in disease occurrence in the integumentary, urinary, cardiovascular, reproductive and musculoskeletal systems. The pathogenesis, pathophysiology and diagnosis of the disease/condition are also discussed and hands-on post mortem examination.

VPM3361 Jangkitan dan Keimunan/ *Infection and Immunity*

2 (1+1)

Prasyarat/ Prerequisite : VPP3231, VPM3301

Kursus ini merangkumi gerak balas imun terhadap pelbagai agen berjangkit, sel barah, tindak balas kehiperpekaan, penyakit autoimun dan peranan keimunan teraruh vaksin bagi beberapa penyakit haiwan penting serta pengetahuan dalam pembangunan vaksin dan juga beberapa prinsip asas teknik serologi.

This course encompasses immune responses against various infectious agents, cancer cells, hypersensitivity reactions, autoimmune diseases and role of vaccine induced immunity in several important animal diseases with information related to vaccine development and basic principals in serological techniques.

VPM4430 Patologi Klinikal Veterinar/ *Veterinary Clinical Pathology* 3 (2+1)

Prasyarat/ Prerequisite : VPM3415

Kursus ini merangkumi penafsiran parameter hematologi, biokimia klinikal, urinalisis dan sitologi dalam membantu diagnosis penyakit. Kes klinikal digunakan sebagai bahan dalam penafsiran dan penyelesaian masalah.

This course encompasses interpretation of parameters in haematology, clinical biochemistry, urinalysis and cytology to assist in the diagnosis of disease. Clinical cases are used as material in interpretation and problem solving.

VPM4500 Kesihatan Awam Veterinar/ *Veterinary Public Health* 4 (3+1)

Prasyarat/ Prerequisite : VPM3340, VPM3351

Kursus ini meliputi penyakit zoonosis dan penyakit bawaan makanan, keselamatan makanan, pemeriksaan daging, residu serta jaminan kualiti makanan berasal haiwan dan prinsip makanan halal dan memberi kemahiran dalam pemeriksaan mikrobiologi daging dan susu.

This course covers zoonoses and foodborne diseases, food safety, meat inspection and residues as well as quality assurance of food of animal origin and principles of 'halal' food, and provides skills in microbiological examination of meat and milk.

Pejabat Dekan/ Dean Office

VPD3932 Orientasi Profesional Veterinar/ *Veterinary Professional Orientation* 2 (0+2)

Prasyarat/Prerequisite : Tiada/Null

Latihan amali ini merangkumi pendedahan awal kepada amalan rutin dan etika kerja pengamal veterinar, pengurusan di klinik, peralatan yang digunakan serta pendedahan kepada kemahiran asas dalam amalan veterinar. Nilai etika dan profesionalisme pengamal veterinar akan ditekankan. Latihan ini melibatkan penempatan pelajar di klinik veterinar, Zoo, Taman Pertanian Universiti (TPU), Hospital Veterinar Universiti (UVH) dan pusat perlindungan haiwan terbiar yang dioperasikan oleh SPCA dan PAWS.

This practical training encompasses the early exposure to regular routines and ethics of practicing veterinarians, management of clinics, equipment used and exposure to basic skills in veterinary practice. The ethical values and professionalism of veterinary practitioners will be emphasized. The training involved student attachments at veterinary clinics, zoos, University Agriculture Park (TPU), University Veterinary Hospital (UVH) and animal shelters operated by SPCA and PAWS

VPD3933 Pengurusan Haiwan Ternakan I/ *Management of Livestocks I* 2 (0+2)

Prasyarat/Prerequisite : Tiada/Null

Latihan amali ini merangkumi pendedahan kepada amalan rutin ladang haiwan ruminan dan babi/haiwan akuatik. Selain mempelajari aktiviti pengurusan ladang, nilai etika dan profesionalisme pengamal veterinar juga ditekankan. Latihan ini melibatkan penempatan pelajar di ladang ruminan dan ladang babi/akuatik

This practical training encompasses the exposure to regular farming routines of ruminant and pigs/aquatic animals. Apart from learning farm management practices, the ethical values and professionalism of veterinary practitioners will also be emphasized. The training involved farm attachments at ruminant and pigs/aquatic animal farms.

Prasyarat/Prerequisite : Tiada/Null

Latihan amali ini merangkumi pendedahan kepada amalan rutin ladang poltri, pusat hidupan liar dan operasi makmal diagnosis. Selain mempelajari aktiviti pengurusan ladang dan rutin makmal diagnosis, nilai etika dan profesionalisme pengamal veterinar juga ditekankan. Latihan ini melibatkan penempatan pelajar di ladang ayam-itik, pusat hidupan liar dan Unit Perkhidmatan Makmal Veterinar (VLSU).

This practical training encompasses the exposure to regular routines of poultry farms, wildlife centers and the operation of diagnostic laboratories. Apart from learning farm and laboratory management practices, the ethical values and professionalism of veterinary practitioners will also be emphasized. The training involved attachments at poultry farms, wildlife centers and the Veterinary Laboratory Services Unit (VLSU)

VPD3935 Orientasi Klinikal/ *Clinical Orientation*

1 (0+1)

Prasyarat/Prerequisite : Tiada/Null

Latihan amali ini merangkumi pendedahan kepada organisasi, operasi serta kaedah pengurusan kes di hospital dan klinik veterinar. Ia melibatkan putaran klinikal di Hospital Veterinar Universiti (UVH) untuk pendedahan dan pembelajaran kemahiran klinikal.

This practical training encompasses the exposure to the organization, operation and case management practices in veterinary hospitals and clinics. These involve clinical rotations at the University Veterinary Hospital (UVH) for clinical skills exposure and training

VPD4941 Amalan Luar Makmal Diagnosis/ *Extramural Diagnostic Laboratory Practice*

1 (0+1)

Prasyarat/Prerequisite : Tiada/Null

Latihan amali ini merangkumi pendedahan kepada organisasi, operasi serta kaedah pengurusan kes di hospital dan klinik veterinar. Ia melibatkan putaran klinikal di Hospital Veterinar Universiti (UVH) untuk pendedahan dan pembelajaran kemahiran klinikal.

This practical training encompassess the exposure to the organization, operation and case management practices in veterinary hospitals and clinics. These involve clinical rotations at the University Veterinary Hospital (UVH) for clinical skills exposure and training.

VPD4945 Amalan Luar Klinik/ *Extramural Clinical Practice*

2 (0+2)

Prasyarat/Prerequisite : Tiada/Null

Kursus ini memberi pendedahan dalam amalan klinikal veterinar melalui penempatan di pusat amalan veterinar. Selain mengikuti kes klinikal di pusat amalan, pelajar juga perlu mengetahui prosedur pengurusan kes dan pendekatan diagnosis yang relevan kepada kes

This course provides exposure in veterinary clinical practice through clinical attachment at veterinary practices. Apart from following clinical cases at veterinary practices, students are required to know procedures of case management and relevant diagnostic approaches for the case.

VPD4970 Siasatan Masalah Veterinar/ *Veterinary Problem Investigation* 1 (0+1)

Prasyarat/Prerequisite : Tiada/Null

Kursus ini menumpu kepada mekanisme penyakit dalam sistem badan dan penyiataan penyakit melalui penggunaan pendekatan berasaskan masalah untuk menyepadu pengetahuan yang telah dan akan diperoleh melalui pembelajaran suar-aruh berkaitan tajuk.

The course focuses on mechanisms of disease in body systems and disease investigation through a problem-based approach to integrate previous knowledge with new knowledge gained through self-directed learning in the topics.

VPD4971 Penyelesaian Masalah Penyakit/ *Problem Solving in Disease* 1 (0+1)

Prasyarat/Prerequisite : Tiada/Null

Kursus ini menggunakan pendekatan pembelajaran berpusatkan pelajar untuk mengenalpasti, menyiayat, membentuk hipotesis dan menyediakan penyelesaian masalah penyakit.

This course uses a student-centered approach to identify, investigate, create a hypothesis and provide solutions to disease problems.

VPD4990 Sains Veterinar Gunaan/ *Applied Veterinary Science* 3 (0+3)

Prasyarat/ Prerequisite : Lulus semua kursus teras sebelum semester akhir program DPV / *Pass all the Faculty courses before the end of the semester program DPV*

Kursus ini meliputi penggunaan pengetahuan dan kemahiran yang diperolehi dalam sains peternakan, sains pra-klinikal, sains para-klinikal dan pengajian klinikal. Kursus ini melibatkan peruntukan masa belajar bagi pelajar secara sendiri dalam semester akhir program Doktor Perubatan Veterinar.

This course involves application of the knowledge and skills acquired in animal sciences, pre-clinical sciences, para-clinical and clinical sciences. This course comprises self-study in the final semester of the Doctor of Veterinary Medicine programme.

VPD4999 Projek Ilmiah Tahun Akhir/ *Final Year Academic Project* 3 (0+3)

Prasyarat/Prerequisite : Tiada/Null

Kursus ini merangkumi projek penyelidikan yang mengenalpasti isu dalam industri haiwan, perancangannya, pelaksanaan, analisis dan penterjemahan data, menyedia dan membentangkan laporan saintifik.

This course encompasses research projects which identifies issues in the animal industry, its planning, implementation, data analysis and interpretation, preparation and presentation of a scientific report.

SHW3101 Produksi Ruminan / *Ruminant Production* 3(2+1)

Prasyarat/Prerequisite : VPP3130

Kursus ini merangkumi aspek pengurusan dan produksi ternakan pedaging, tenusu serta produksi ruminan kecil. Keperluan utama dalam pengeluaran sistem produksi ruminan seperti pemakanan, kemudahan, pengendalian hasil susu dan daging, pengurusan kesihatan dan hasil buangan juga turut dibincangkan.

This course encompasses the management and production of beef dairy animals and small ruminant. Major requirements in ruminant production such as nutrition, facilities, handling of milk and meat products, health and animal wastes management are also discussed.

SHW3202 Produksi Bukan Ruminan / *Non-Ruminant Production* 4(3+1)

Prasyarat/Prerequisite : VPP3130

Kursus ini merangkumi aspek pengurusan ternakan poltri bagi pengeluaran telur dan daging serta produksi babi. Keperluan utama dalam pembangunan sistem produksi bukan ruminan seperti pemilihan dan pembiakan, keperluan pemakanan, kemudahan, pengendalian hasil telur dan daging, pengurusan kesihatan haiwan serta pengendalian hasil buangan turut diliputi.

This course covers the management of broiler, layer and pig production. Major requirements in non ruminant production such as selection and breeding, nutritional requirements, facilities, handling of eggs and meat products, health management as well as handling of animal wastes are also covered.

SHW3002 Pertanian Ternakan / *Animal Agriculture* 3(2+1)

Prasyarat/Prerequisite : Tiada / *Null*

Kursus ini merangkumi kepentingan pertanian ternakan kepada tamadun manusia, di samping memperkenalkan elemen sistem pertanian masa kini dan konsep pertanian lestari. Aspek asas dalam kebajikan dan kesihatan haiwan, serta pengenalan kepada amalan pengurusan haiwan yang baik juga akan dibincangkan.

This course encompasses the importance of animal agriculture to human civilization, apart from introducing students to the elements of current agricultural practices and sustainable agriculture. Basics animal welfare and animal health, as well as good animal health practices are also discussed.

ADVISORY ACADEMIC SYSTEM

What is Advisory Academic System

Under this system, a student throughout the study at the university is placed under the care and guidance of an academic officer. In this case, the academic advisor (PA) is a friend, companion, adviser, or counselor to a student under his upbringing that always need guidance.

Advice was given not only about problems related to academic but other problems, including personal. The role and function of the PA in supporting learning activities in the university was emphasized.

The PA are academic members of the faculty. They are given a group of students who remains under his/her guidance until they graduate except in certain circumstances whereby students may be allocated another PA.

Goals and objectives of the Academic Advisory

- To establish a systematic communication channel for students to complain about their problems in academic matters.
- To discuss with students their problems so that relevant help and/or advice can be obtained.
- To strengthen ties between students and academic members of the Faculty.

The role of the Academic Advisor

- Assist, review and monitor the progress academic achievement
- Provide guidance and advice of academic affairs
- Identify problems that can cause problems related to academic and guide students to solve the problem
- To help students understand the curriculum, the systems of semester, registration, examination, and exemptions of courses
- To help students plan their study scheme
- To help students choose courses.
- Providing advice and guidance to students in building and nourishing the development of the individual
- Create a more friendly atmosphere and a sense of goodwill and mutual understanding among students and academic staff.
- Assist and encourage students to participate in extra-curricular activities.
- To help students solve their problems and if necessary, to refer them to the relevant authorities
- Provide advice about career fields.
- Other related matters.

Benefits of the Academic Advisory System

According to the practice of academic advisory system, students will always be dealing with PA in various things. This system creates a close relationship between students and PA. A good relationship between PA and students will indirectly provide training to students to familiarize themselves about the way to build in relationship with others. If the system is implemented properly and successfully, students' flaws will be able to repair and reduced.

Implementation

- Students are encouraged to meet with their appointed PA directly to seek advice.
- Appointments can be made to meet the PA in accordance with the appropriate time.
- PA will review the test results and discuss with the student that need attention.
- Discussions among the students and the PA in a group is also encouraged.

Appendix I
Awards and prizes for Doctor of Veterinary Medicine Students

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsor ship
1.	Pingat Emas Royal Canin <i>Royal Canin Gold Medal</i>	Wang tunai RM5,000, Pingat Emas dan Sijil Penghargaan <i>Cash RM5,000.00, Gold Medal and Certificate of Appreciation</i>	Graduan DPV terbaik akademik keseluruhan/ <i>Awarded to graduated student in DVM programme with the best overall performance.</i>	Royal Canin Malaysia Sdn. Bhd.	2014- 2022
2.	Hadiah Persatuan Veterinar Malaysia (Amalan Ruminan) <i>Veterinary Association Malaysia Award (Ruminant Practice)</i>	Sijil Penghargaan dan wang tunai RM1,000.00 <i>Certificate of Appreciation and cash RM1000.00</i>	Graduan DPV yang cemerlang serta menunjukkan minat yang tinggi dalam bidang Perubatan dan Amalan Ruminan/ <i>Awarded to outstanding graduated student in DVM programme who demonstrated highest interest in Ruminant Medicine and Practices.</i>	Persatuan Veterinar Malaysia <i>Veterinary Association Malaysia</i>	1978 -2022
3.	Hadiah Persatuan Produksi Haiwan Malaysia (Sains Pernakan) <i>Malaysian Society of Animal Production Award (Animal Science)</i>	Sijil Penghargaan dan wang tunai RM1,000.00 <i>Certificate of Appreciation and cash RM1000.00</i>	Graduan DPV yang cemerlang dalam bidang Sains Pernakan/ <i>Awarded to the graduated student in DVM programme with the Excellent performance in Animal Science.</i>	Persatuan Produksi Haiwan Malaysia <i>Malaysian Society of Animal Production</i>	1978 - 2022
4.	Hadiah Howell-Jubb <i>Howell-Jubb Award</i>	Sijil Penghargaan dan Pingat emas bernilai RM500.00 <i>Certificate of Appreciation and Gold Medal worth RM500.00</i>	Graduan DPV yang cemerlang dalam kursus Sains Veterinar Gunaan (VPD 4990)/ <i>Awarded to graduated student in DVM programme with excellent in Applied Veterinary Science (VPD 4990).</i>	Staf dan UVA FPV <i>Malaysian Veterinary Alumni</i>	1983 (berterus an/contin ously)
5.	Hadiah Elanco Malaysia Sdn. Bhd. (Perubatan Porsin) <i>Elanco Malaysia Sdn. Bhd. Award (Porcine Medicine)</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan <i>Cash RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang serta menunjukkan minat yang tinggi dalam bidang Perubatan Porsin dan mencapai purata timbunan tidak kurang daripada 3.00	Elanco Malaysia Sdn. Bhd.	1991- 2022

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsorship
6.	Hadiah FFM FFM Award	Wang Tunai RM1,500.00 dan Sijil Penghargaan <i>Cash RM1,500.00 and Certificate of Appreciation</i>	Graduan DPV terbaik bagi kursus Projek Tahun Akhir (VPD 4999)/ <i>Awarded to graduated student in DVM programme with the best performance in Final Year project (VPD 4999).</i>	FFM Berhad	1992 - 2022
7.	Hadiah Hill's Pet Nutrition <i>Hill's Pet Nutrition Award</i>	Wang Tunai RM2,000.00, Sijil Penghargaan dan buku <i>Cash RM2000.00, Certificate of Appreciation and books</i> 1) Hadiah pertama; Wang Tunai RM1,000.00, Sijil Penghargaan dan Hill's Clinical Nutrition Book & Hill's Atlas 2) Hadiah kedua; Wang Tunai RM500.00, Sijil Penghargaan dan Hill's Clinical Nutrition Book & Hill's Atlas 3) Hadiah ketiga; Wang Tunai RM500.00, Sijil Penghargaan dan Hill's Clinical Nutrition Book & Hill's Atlas	Graduan DPV cemerlang serta menunjukkan minat yang tinggi dalam bidang Pemakanan Haiwan Kesayangan./ <i>Awarded to graduated student with the excellent performance in DVM programme and demonstrated highest interest in Companion Animal Nutrition.</i>	Pets Corner Sdn. Bhd.	1996 - 2022
8.	Hadiah MSAVA MSAVA Award	Sijil Penghargaan dan wang tunai RM1,000.00 <i>Certificate of Appreciation and Cash RM1,000</i>	Graduan DPV yang cemerlang serta menunjukkan minat yang tinggi dalam bidang Pembedahan/ <i>Awarded to graduated student with the excellent performance in DVM programme and demonstrated highest interest in Surgery.</i>	Persatuan Doktor Veterinar Haiwan Kesayangan Malaysia (MSAVA) <i>Malaysian Small Animal Veterinary Association (MSAVA)</i>	1999 - 2022

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsor ship
9.	Pingat Emas Dindings Poultry Development Centre Sdn. Bhd. <i>Dindings Poultry Development Centre Sdn. Bhd. Gold Medal</i>	Wang Tunai RM1,000.00, Sijil Penghargaan dan Pingat emas <i>Cash RM1,000.00, Certificate of Appreciation and Gold Medal</i>	Graduan DPV yang cemerlang serta menunjukkan minat yang tinggi dalam bidang Kesihatan Umum Veterinar/ <i>Awarded to graduated student with the excellent performance in DVM programme and demonstrated highest interest in Veterinary Public Health.</i>	Dindings Poultry Development Centre Sdn. Bhd.	2005 - 2022
10.	Pingat Emas CEVA Animal Health <i>CEVA Animal Health Gold Medal</i>	Wang Tunai, Sijil Penghargaan dan Pingat emas (kesemuanya berjumlah RM1,500.00) <i>Gold Medal, Cash and Certificate worth RM1,500.00</i>	Graduan DPV yang cemerlang serta menunjukkan minat yang tinggi dalam bidang Mikrobiologi dan Epidemiologi Veterinar./ <i>Awarded to graduated student with the excellent performance in DVM programme and demonstrated highest interest in Veterinary Bacteriology and Epidemiology.</i>	CEVA Animal Health Malaysia Sdn. Bhd.	2005 - 2022
11.	Hadiah Gold Coin (Pemakanan Ternakan) <i>Gold Coin Award (Livestock Nutrition)</i>	Wang Tunai RM1,000.00, Sijil Penghargaan dan Pingat emas <i>Cash RM1,000.00, Certificate of Appreciation and Gold Medal</i>	Pelajar DPV Tahun 3 yang cemerlang dalam bidang Pemakanan Ternakan./ <i>Awarded to graduated DVM student with highest marks in Preclinical Section of Applied Veterinary Sciences (VPD 4990).</i>	Gold Coin Feedmills (M) Sdn. Bhd.	1978- 2022
12.	Hadiah Persatuan Veterinar Malaysia (Pra-Klinikal) <i>Veterinary Association Malaysia Award (Pre-Clinical)</i>	Sijil Penghargaan dan wang tunai RM1,000.00 <i>Certificate of Appreciation and cash RM1,000.00</i>	Pelajar DPV Tahun 3 yang cemerlang dalam bidang Sains Pra-Klinikal/ <i>Awarded to third year DVM student excellent in Pre-Clinical Science.</i>	Persatuan Veterinar Malaysia <i>Veterinary Association Malaysia</i>	1978 - 2022
13.	Hadiah Persatuan Veterinar Malaysia (Patologi) <i>Veterinary Association Malaysia Award (Pathology)</i>	Sijil Penghargaan dan wang tunai RM1,000.00 <i>Certificate of Appreciation and cash RM1000.00</i>	Pelajar DPV Tahun 4 yang cemerlang serta menunjukkan minat yang tinggi dalam bidang Patologi/ <i>Awarded to excellent fourth year DVM student who demonstrated highest interest in Pathology.</i>	Persatuan Veterinar Malaysia <i>Veterinary Association Malaysia</i>	1978 - 2022

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsor ship
14.	Hadiah Cargill <i>Cargill Award</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan <i>Cash RM1,000.00 and Certificate of Appreciation</i>	Pelajar DPV Tahun 4 yang cemerlang serta menunjukkan minat yang tinggi dalam bidang Sains Pernakanan dan Pemakanan/ <i>Awarded to excellent fourth year DVM student who demonstrated highest interest in Livestock Science and Nutrition.</i>	Cargill Feed Sdn. Bhd.	1999 - 2022
15.	Hadiah Aishah Meadows <i>Aishah Meadows Award</i>	Wang Tunai RM1,500.00 dan Sijil Penghargaan <i>Cash RM1,500.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang serta menunjukkan kemahiran insaniah yang tinggi dalam bidang Pengajian Ekuin/ <i>Awarded to outstanding DVM student who demonstrated strong soft-skills in Equine studies.</i>	Aishah Meadows Equine Resources	2010- 2022
16.	Hadiah Global Veterinary <i>Global Veterinary Award</i>	Wang Tunai RM2,000.00 dan Sijil Penghargaan <i>Cash RM2,000.00 and Certificate</i>	Graduan DPV yang cemerlang serta menunjukkan kemahiran insaniah yang tinggi dalam bidang Produksi Ruminan/ <i>Awarded to outstanding DVM student who demonstrated strong soft skills in Ruminant Production.</i>	Global Veterinary Sdn.Bhd.	2011- 2022
17.	Hadiah Vet Food Agro Diagnostics <i>Vet Food Agro Diagnostics Award</i>	Sijil dan Wang tunai RM2,500.00 <i>Certificate and cash RM2,500.00</i>	Pelajar DPV Tahun 4 yang cemerlang serta menunjukkan kemahiran psikomotor yang tinggi dalam bidang Diagnosis Makmal/ <i>Awarded to outstanding fourth year DVM student who demonstrated strong psychomotor skills in Laboratory Diagnosis.</i>	Vet Food Agro Diagnostics (M) Sdn. Bhd.	2011- 2022

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsor ship
18.	Hadiah Rhone Ma (Paraklinikal) <i>Rhone Ma Award (Para-clinical)</i>	Wang Tunai RM2,500.00, Sijil Penghargaan dan Tawaran Pembiayaan menjalankan projek tahun akhir sehingga RM2500.00 <i>Cash RM2,500.00, Certificate of Appreciation, and Financial Assistance offer to conduct final year project up to RM2,500.00</i>	Pelajar DPV Tahun 3 yang cemerlang serta menunjukkan minat yang tinggi dalam bidang Paraklinikal dan mencapai purata timbunan tidak kurang daripada 3.000/ <i>Awarded to outstanding third year DVM student who demonstrated strong interest in Paraclinical science and had Average Cumulative Grade Point (CGPA) ≥ 3.00</i>	Rhone Ma Malaysia Sdn. Bhd.	2011-2022
19.	Hadiah Gold Coin (Kecemerlangan Pra Klinikal) <i>Gold Coin Award (Excellence in Pre-clinical)</i>	Wang Tunai RM1,000.00, Sijil Penghargaan dan plak <i>Cash RM1,000.00 Certificate and Plaque</i>	Graduan DPV yang mendapat markah kumulatif tertinggi dalam bahagian Prakinikal kursus VPD 4990 Sains Veterinar Gunaan/ <i>Awarded to graduated DVM student with highest marks in Preclinical Section of Applied Veterinary Sciences (VPD 4990).</i>	Gold Coin Feedmills (M) Sdn. Bhd.	2012-2022
20.	Hadiah Elanco Malaysia Sdn. Bhd. (Konferensi Klinikal Avian) <i>Elanco Malaysia Sdn. Bhd. Award (Clinical Conference - Avian)</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan <i>Cash RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dalam Konferensi Klinikal – Avian/ <i>Awarded to graduated DVM student excellent in Clinical Conference (Avian).</i>	Elanco Malaysia Sdn. Bhd.	2012-2022
21.	Hadiah Elanco (Malaysia) Sdn. Bhd. (Projek Tahun Akhir Avian) <i>Elanco Malaysia Sdn. Bhd. Award (Final Year Project – Avian)</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan <i>Cash RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dalam Projek Tahun Akhir Avian/ <i>Awarded to graduated DVM student excellent in Final Year Project (Avian).</i>	Elanco Malaysia Sdn. Bhd.	2012-2022
22.	Anugerah Pelajar Bumiputera Terbaik	Wang tunai RM1,000.00 dan Sijil Penghargaan <i>Cash RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV terbaik Bumiputera/ <i>Awarded to the outstanding graduated bumiputera DVM student.</i>	Koperasi UPM Berhad	2012-2022
23.	Hadiah Zoetis (Amalan Porsin)	Wang Tunai RM3,000.00 dan	Graduan DPV yang cemerlang serta	Zoetis Malaysia Sdn. Bhd.	2013-2020

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsorship
	<i>Zoetis Award (Porcine Practice)</i>	Sijil Penghargaan Cash <i>RM3,000.00 and Certificate of Appreciation</i>	menunjukkan kemahiran psikomotor dan kemahiran insaniah yang tinggi dalam bidang Kesihatan Porsin. Serta mencapai purata timbunan tidak kurang daripada 3.000./ <i>Awarded to the outstanding DVM student who demonstrated strong psychomotor skills and soft skills in Porcine Medicine and had Achieved Average Cumulative Grade Point (CGPA) ≥ 3.00.</i>		
24.	Pingat Emas Tan Sri Lau Tuang Nguang, Francis (PSM, DMSM) – Leong Hup Group Companies (Kecemerlangan Para Klinikal) <i>Tan Sri Lau Tuang Nguang, Francis (PSM, DMSM) Gold Medal - Leong Hup Group Companies (Excellence in Paraclinical)</i>	Wang Tunai RM1,500.00 dan Sijil Penghargaan Cash <i>RM1,500.00, Certificate of Appreciation and Gold Medal</i>	Graduan DPV yang mendapat markah kumulatif tertinggi dalam bahagian Para klinikal kursus VPD 4990 Sains Veterinar Gunaan/ <i>Awarded to graduated DVM student with the highest cumulative mark in Paraclinical section of Applied Veterinary Science (VPD 4990).</i>	Leong Hup Agrobusiness Sdn Bhd	2013-2020
25.	Pingat Emas Tan Sri Lau Tuang Nguang, Francis (PSM, DMSM) – Leong Hup Group Companies (Kecemerlangan Klinikal) <i>Tan Sri Lau Tuang Nguang Francis (PSM, DMSM) Gold Medal - Leong Hup Group Companies (Excellence in Clinical)</i>	Wang tunai RM1,500.00, Sijil Penghargaan dan Pingat Emas Cash <i>RM1,500.00, Certificate of Appreciation and Gold Medal</i>	Graduan DPV yang mendapat markah kumulatif tertinggi dalam bahagian Klinikal kursus VPD 4990 Sains Veterinar Gunaan/ <i>Awarded to graduated DVM student with the highest cumulative mark in Clinical section of Applied Veterinary Science (VPD 4990).</i>	Leong Hup Agrobusiness Sdn Bhd	2013-2020
26.	Hadiah Leong Hup Agrobusiness Sdn Bhd (Avian Pathology) <i>Leong Hup Agrobusiness Sdn Bhd Award (Avian Pathology)</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan Cash <i>RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dan menunjukkan minat yang tinggi dalam bidang Patologi Avian. Serta mencapai purata timbunan tidak kurang daripada 3.00/ <i>Awarded to excellent</i>	Leong Hup Agrobusiness Sdn Bhd	2013-2020

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsorship
			<i>DVM graduated student who demonstrated highest interest in Avian Pathology.</i>		
27.	Hadiah Leong Hup Agrobusiness Sdn Bhd (Poultry Production/ Produksi Ayam Itik) <i>Leong Hup Agrobusiness Sdn Bhd Award (Poultry Production)</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan <i>Cash RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dan menunjukkan minat yang tinggi dalam Produksi Ayam Itik. Serta mencapai purata timbunan tidak kurang daripada 3.00/ <i>Awarded to excellent graduated DVM student who demonstrated highest interest in Poultry Production (Duck and Chicken) and had an Average Cumulative Grade Point (CGPA) ≥ 3.00.</i>	Leong Hup Agrobusiness Sdn Bhd	2013-2020
28.	Hadiah Boehringer Ingelheim (Latihan Industri bidang Avian) <i>Boehringer Ingelheim Award (Industrial Practical in Avian)</i>	Wang Tunai RM2,000.00 dan Sijil Penghargaan <i>Cash RM2,000.00 and Certificate of Appreciation</i>	Pelajar tahun 3 yang cemerlang serta menunjukkan kemahiran psikomotor dan kemahiran insaniah yang tinggi dalam bidang Latihan Industri bidang Avian. Serta mencapai purata timbunan tidak kurang daripada 3.000/ <i>Awarded to outstanding third year DVM student who demonstrated strong psychomotor skills and soft skills in Industrial Practical (Avian) and had an Average Cumulative Grade Point (CGPA) ≥ 3.00.</i>	Boehringer Ingelheim (Malaysia) Sdn. Bhd.	2013-2020
29.	Hadiah Boehringer Ingelheim (Konferensi Klinikal_Porsin) <i>Boehringer Ingelheim Award (Clinical Conference – Porcine)</i>	Wang Tunai RM2,000.00 dan Sijil Penghargaan <i>Cash RM2,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dalam Konferen Klinikal_Porsin. Serta mencapai purata timbunan tidak kurang daripada 3.000/ <i>Awarded to graduated DVM</i>	Boehringer Ingelheim (Malaysia) Sdn. Bhd.	2013-2020

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsorship
			<i>student excellent in Clinical conference (Porcine) and had an Average Cumulative Grade Point (CGPA) ≥ 3.00.</i>		
30.	Hadiah Sunzen (Kecemerlangan Mikrobiologi) <i>Sunzen Award (Excellence in Microbiology)</i>	Wang Tunai RM2,000.00 dan Sijil Penghargaan <i>Cash RM2,000.00 and Certificate of Appreciation</i>	Pelajar DPV Tahun 3 yang cemerlang serta menunjukkan minat yang tinggi dalam bidang Mikrobiologi dan mencapai purata timbunan tidak kurang daripada 3.00/ <i>Awarded to outstanding third year DVM student who demonstrated highest interest in Microbiology and had an Average Cumulative Grade Point (CGPA) ≥ 3.00</i>	Sunzen Biotech Berhad	2013-2020
31.	Hadiah Royal Canin (Royal Canin Student Ambassador) <i>Royal Canin Award (Royal Canin Student Ambassador)</i>	Sijil Penghargaan dan Travelling grant (wang saku, tambang pergi balik serta penginapan) <i>Certificate of Appreciation and Travelling Grant (Allowance, return flight ticket and accommodation)</i>	Pelajar DPV Tahun 2 yang cemerlang serta menunjukkan tahap tinggi dalam psikomotor dan komunikasi berkesan./ <i>Awarded to outstanding second year DVM student who demonstrated strong psychomotor skills and good communication skills.</i>	Royal Canin Malaysia Sdn. Bhd.	2014-2022
32.	Hadiah Perfect Companion (Praklinikal) <i>Perfect Companion Award (Preclinical)</i>	Wang tunai RM1,000.00 dan Sijil Penghargaan <i>Cash RM1,000.00 and Certificate of Appreciation</i>	Pelajar DPV Tahun 3 yang terbaik keseluruhan pada peringkat Praklinikal dan mencapai purata timbunan tidak kurang daripada 3.000/ <i>Awarded to outstanding third year DVM student in Preclinical science and had an Average Cumulative Grade Point (CGPA) ≥ 3.00.</i>	Perfect Companion (M) Sdn. Bhd.	2015-2022
33.	Ceva Animal Health Swine Project Award	Wang tunai RM1,500.00 dan Sijil Penghargaan <i>Cash RM1,500.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dan mencapai markah tertinggi dengan Gred A dalam kursus VPD4999 (Projek Tahun Akhir Porsin)/	Ceva Animal Health Malaysia Sdn. Bhd.	2015 - 2022

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsorship
			<i>Awarded to the outstanding graduated DVM student with Grade A in Final Year Project (Porcine) (VPD4999).</i>		
34.	Veterinary Business Award	Wang Tunai RM1,000.00 dan Sijil Penghargaan Cash <i>RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dalam Kursus Perniagaan Veterinar/ <i>Awarded to graduate DVM student excellent in Veterinary Business.</i>	KM Vet Pharm Sdn Bhd	2016-2020
35.	Hadiah Nutri Pharmax (Perubatan Ruminan) <i>Nutri Pharmax Award (Ruminant Medicine)</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan Cash <i>RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dalam bidang Perubatan Ruminan/ <i>Awarded to graduated DVM student excellent in Ruminant Medicine.</i>	Nutri Pharmax Sdn. Bhd.	2016-2020
36.	Hadiah Nutri Pharmax (Kesihatan Haiwan Akuatik) <i>Nutri Pharmax Award (Aquatic Animal Health)</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan Cash <i>RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dalam bidang Kesihatan Haiwan Akuatik/ <i>Awarded to graduated DVM student excellent in Aquatic Animal Health.</i>	Nutri Pharmax Sdn. Bhd.	2016-2020
37.	Hadiah PeterLabs Holdings Berhad (Livestock Production and Health/ Produksi dan Kesihatan Haiwan Ternakan) <i>Peterlabs Holdings Berhad Award (Livestock Production and Health)</i>	Wang Tunai RM2,500.00 dan Sijil Penghargaan Cash <i>RM2,500.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dalam bidang Produksi Haiwan Dan Kesihatan Haiwan/ <i>Awarded to graduated DVM student excellent in Livestock Production and Health.</i>	PeterLabs Holdings Berhad	2016-2020
38.	Animal Welfare Award	Wang tunai RM1,000.00, Keahlian dalam Malaysian National Animal Welfare Foundation (MNAWF), Animal Welfare Act 2015 (Act 772) dan Sijil Penghargaan Cash <i>RM1,000.00, Membership in Malaysian National Animal Welfare Foundation</i>	Pelajar tahun 5 yang cemerlang dan menunjukkan minat yang tinggi dalam kebajikan haiwan serta mencapai purata timbunan tidak kurang daripada daripada 3.00./ <i>Awarded to excellent final year DVM student who demonstrated highest interest in animal welfare and had an Achieved Average Cumulative Grade Point (CGPA)</i>	Yayasan Kebajikan Haiwan Kebangsaan Malaysia (MNAWF) <i>Malaysian National Animal Welfare Foundation (MNAWF)</i>	2016-2020

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsorship
		<i>(MNAWF), Animal Welfare Act 2015 (Act 772) and Certificate of Appreciation</i>	≥ 3.00.		
39.	Anugerah Persatuan Patologi Veterinar Malaysia (MAVP) <i>Malaysian Veterinary Association of Veterinary Award</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan <i>Cash RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang serta menunjukkan kemahiran insaniah yang tinggi dalam bidang Patologi dan mencapai purata timbunan tidak kurang daripada 3.00/ <i>Awarded to outstanding final year DVM student who demonstrated strong soft skills in Pathology and had an Average Cumulative Grade Point (CGPA) ≥ 3.00.</i>	Persatuan Patologi Veterinar Malaysia (MAVP) <i>Malaysia Association of Veterinary Pathology (MAVP)</i>	2016-2020
40.	Hadiah HIPRA Malaysia (Immunologi) <i>HIPRA Malaysia Award (Immunology)</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan <i>Cash RM1,000.00 and Certificate of Appreciation</i>	Pelajar DVM 3 yang cemerlang dalam bidang jangkitan dan imuniti dan mencapai purata CGPA tidak kurang daripada 3.00/ <i>Awarded to DVM 3 student who demonstrated strong soft skills in infection and immunity and had an Average Cumulative Grade Point (CGPA) ≥ 3.00.</i>	HIPRA Malaysia Sdn. Bhd.	2016-2020
41.	Hadiah HIPRA Malaysia (Bioperubatan Veterinar) <i>HIPRA Malaysia Award (Biomedical Veterinary)</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan <i>Cash RM1,000.00 and Certificate of Appreciation</i>	Graduan yang cemerlang dalam projek tahun akhir (VPD4999) dalam bidang bioperubatan veterinar dan mencapai purata PNGK tidak kurang daripada 3.00/ <i>Awarded to Final year student (VPD4999) who demonstrated strong soft skills in biomedical veterinary and had an Average Cumulative Grade Point (CGPA) ≥ 3.00.</i>	HIPRA Malaysia Sdn. Bhd.	2016-2020
42.	Hadiah Kecemerlangan Boehringer Ingelheim <i>Boehringer Ingelheim Excellence Award</i>	Wang Tunai RM3,000.00 dan Sijil Penghargaan <i>Cash</i>	Graduan DPV yang cemerlang serta menunjukkan minat yang tinggi dalam	Boehringer Ingelheim (Malaysia) Sdn. Bhd.	2017-2021

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsorship
		<i>RM3,000.00 and Certificate of Appreciation</i>	bidang Penyakit Haiwan/ <i>Awarded to graduated student with the excellent performance in DVM programme and demonstrated highest interest in Animal Disease.</i>		
43.	Hadiah My Vet Care <i>My Vet Care Award</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan <i>Cash RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dalam Konferen Klinikal Perubatan dan Pembedahan Haiwan Kesayangan (Kanin)/ <i>Awarded to graduated DVM student excellent in Clinical conference (Companion Animal – Canine).</i>	My Vet Care Sdn. Bhd.	2017-2021
44.	Hadiah Rhone Ma (Perubatan Haiwan Kesayangan) <i>Rhone Ma Award (Companion Animal Medicine)</i>	Wang Tunai RM1,000.00 dan Sijil Penghargaan <i>Cash RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dan menunjukkan minat yang tinggi dalam Perubatan Haiwan Kesayangan/ <i>Awarded to graduated DVM student excellent Companion Animal Medicine.</i>	Rhone Ma Malaysia Sdn. Bhd.	2017-2021
45.	Hadiah Elanco (Malaysia) Sdn. Bhd. (Amalan Avian) <i>Elanco Malaysia Sdn. Bhd. Award (Avian Practice)</i>	Wang tunai RM2,000.00 dan Sijil Penghargaan <i>Cash RM2,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang serta menunjukkan kemahiran psikomotor dan kemahiran insaniah yang tinggi dalam bidang Kesihatan Avian/ <i>Awarded to excellent graduated DVM student who demonstrated strong psychomotor and soft skills in Avian Practice.</i>	Elanco Malaysia Sdn. Bhd.	2011-2022
46.	Hadiah WPSA (Kecemerlangan Sains Poltri) <i>WPSA Award (Excellence in Poultry Science)</i>	Wang Tunai bernilai RM1,100.00, Sijil Penghargaan dan Fee Waive untuk 1 tahun keahlian dalam persatuan WPSA <i>Cash RM1,100.00, Certificate of Appreciation and 1 Year Annual</i>	Graduan DPV yang cemerlang dalam bidang sains ayam itik/ <i>Awarded to graduated DVM student excellence in Poultry Science.</i>	WPSA Malaysia Branch	2018-2022

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsor ship
		<i>Fee Waiver (WPSA membership)</i>			
47.	Hadiah Ceres Nutrition (Kecemerlangan Klinikal) <i>Ceres Nutrition Award (Excellence in Clinical)</i>	Wang Tunai bernilai RM5,500.00 dan Sijil Penghargaan Cash <i>RM5,500.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dalam bidang Klinikal Veterinar dan mendapat CGPA tidak kurang daripada 3.00/ <i>Awarded to graduated DVM student excellent in clinical veterinary and had an Average Cumulative Grade Point (CGPA) ≥ 3.00</i>	Ceres Nutrition Sdn Bhd	2018-2022
48.	Hadiah Mobiliti Windsor Animal Hospital (Extramural Clinic/Laboratory) <i>Windsor Animal Hospital Mobility Award (Extramural Clinic/Laboratory)</i>	Sijil Penghargaan, geran mobiliti 2 minggu ke negara yang dikunjungi. <i>Certificate and Mobility Grant for a duration of 2 weeks</i>	Pelajar DPV 3 yang cemerlang dalam bidang praklinikal dan paraklinikal mendapat CGPA tidak kurang daripada 3.00/ <i>Awarded to DVM 3 student excellent in preclinical dan paraclinical and had an Average Cumulative Grade Point (CGPA) ≥ 3.00.</i>	Windsor Animal Hospital Sdn Bhd	2018-2022
49.	Hadiah Kecemerlangan Kemlin (Kecemerlangan Farmakologi dan Toksikologi) <i>Kemlin Excellence Award (Excellence in Pharmacology and Toxicology)</i>	Wang Tunai bernilai RM1,000.00 dan Sijil Penghargaan Cash <i>RM1,000.00 and Certificate of Appreciation</i>	Graduan DPV yang cemerlang dalam bidang farmakologi dan toksikologi dan mencapai purata timbunan CGPA tidak kurang daripada 3.00/ <i>Awarded to graduated DVM student excellent in Pharmacology and Toxicology and had an Average Cumulative Grade Point (CGPA) ≥ 3.00</i>	Kemlin Industries (Malaysia) Sdn Bhd	2018-2022
50.	Hadiah Dr. Abdul Wahid Haron_Kecemerlangan Teriogenologi <i>Dr Abdul Wahid Haron Excellence Award (Excellence in Theriogenology)</i>	Sijil dan Wang Tunai bernilai RM1,000 <i>Certificate of Appreciation and Cash RM1,000.00</i>	Graduan DPV yang cemerlang dan mendapat markah tertinggi dalam bidang Teriogenologi serta minimum CGPA 3.0/ <i>Awarded to graduated DVM student excellent in theriogenology and had an Average Cumulative Grade Point (CGPA) ≥ 3.00</i>	YBhg. Prof. Dr. Abdul Wahid Haron	2019-2023

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsor ship
51.	Hadiah Kecemerlangan iVET Petcare Group of Animal Clinics	Sijil dan Wang Tunai bernilai RM1,000 <i>Certificate of Appreciation and Cash RM1,000.00</i>	Graduan DPV yang cemerlang serta menunjukkan kemahiran insaniah yang tinggi dalam bidang Perubatan Haiwan Kesayangan dengan minimum CGPA 3.0/ <i>Awarded to excellent graduated DVM student who demonstrated strong soft skills in small animal medicine and had an Average Cumulative Grade Point (CGPA) ≥ 3.00</i>	iVET Petcare Group of Animal Clinics	2019-2023
52.	Hadiah Kecemerlangan AniHealth (Projek Ilmiah Tahun Akhir – Felin)	Sijil dan Wang Tunai bernilai RM1,000 <i>Certificate of Appreciation and Cash RM1,000.00</i>	Graduan DPV yang cemerlang dalam Projek Tahun Akhir bidang Haiwan Kesayangan (Felin) dengan minimum CGPA 3.0/ <i>Awarded to graduated DVM student excellent in Final Year Project – Felin) and had an Average Cumulative Grade Point (CGPA) ≥ 3.00.</i>	AniHealth Sdn Bhd	2019-2023
53.	Hadiah Boehringer Ingelheim (Malaysia) Sdn. Bhd. (Konferensi Klinikal – Aplikasi Parasitologi Haiwan Kesayangan)	Wang Tunai RM2,000.00 dan Sijil Penghargaan	Graduan DPV yang: a) cemerlang dalam Konferens Klinikal – Parasitologi Haiwan Kesayangan b) menunjukkan minat dan pemahaman yang baik mengenai aplikasi parasitologi haiwan kecil serta mencapai purata timbunan tidak kurang daripada 3.000/ <i>Awarded to graduated DVM Student: a) Excellent in Clinical Conference – Small Animal Pasitology. b) Demonstrated interest and understanding</i>	Boehringer Ingelheim (Malaysia) Sdn. Bhd.	2020-2025

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsorship
			<i>in applied parasitology in small animal and had an Average Cumulative Grade Point (CGPA) ≥ 3.00.</i>		
54.	Hadiah Boehringer Ingelheim (Malaysia) Sdn. Bhd. (Perubatan Haiwan Kesayangan - Kardio-Respirasi)	Wang Tunai RM3,000.00 dan Sijil Penghargaan	<p>Graduan DPV yang</p> <p>a) menunjukkan minat dalam bidang perubatan internal haiwan kesayangan (Kardiorespirasi)</p> <p>b) Cemerlang dalam kursus VPK3613 bahagian Respirasi</p> <p>c) Cemerlang dalam kursus VPK3614 bahagian Kardiovaskular</p> <p>d) Cemerlang dalam kursus VPK4640 Perubatan Anjing dan Kucing</p> <p>e) Serta mencapai purata timbunan tidak kurang daripada 3.000</p> <p>*Pemerhatian khas – jika graduan membuat FYP, Konferens Klinikal dan prestasi semasa rotasi.</p> <p><i>Awarded to graduated DVM Student:</i></p> <p>a) <i>Demonstrated interest in small animal internal medicine (cardiorespiratory)</i></p> <p>b) <i>Excellent in VPK3613 course – respiratory section.</i></p> <p>c) <i>Excellent in VPK3614 course – cardiovascular section.</i></p> <p>d) <i>Excellent in VPK VPK4640</i></p>	Boehringer Ingelheim (Malaysia) Sdn. Bhd.	2020-2025

Bil. No.	Nama Hadiah Name of Prize	Bentuk Hadiah Type of Prize	Syarat Kurniaan Award Requirements	Penaja Sponsor	Tempoh Tajaan Duration of Sponsor ship
			<p>course Felin and Canin Medicine. section e) had an Average Cumulative Grade Point (CGPA) \geq 3.00 *Special observation for graduated students who did that topic in Final Year Project, Clinical Conference, and rotation.</p>		

STUDENT ACTIVITIES

PRO-KASIH

The Faculty sponsors an annual castration project for stray animals better known as PRO-KASIH. This programme is organised by the VETERNAK and Zoologico club under the supervision of Faculty. The objective of the project is to raise the awareness on the welfare of stray animals in and around UPM campus as part of our Corporate Social Responsibility (CSR).

VET ORIENTATION and CAREER WEEK

An annual event organised by the VETERNAK and conducted in the first semester of each academic year. The main objective of this programme is to provide the opportunity for students to meet veterinary professionals and practitioners. In the programme students are briefed by invited speakers on career opportunities and the trials and tribulations of the veterinary profession.

CAREER TALK

Career Talk is programme that is organised and conducted every Friday of second semester to graduating students. This programme is sponsored by companies from the Malaysia Veterinary Industry.

VET CAMP

The program is an initiative of the Faculty of Veterinary Medicine Student Association to enhance relationship and foster teamwork and team-spirit among first year students. The objective of this programme is to develop leadership acumen among students and to strengthen bonds between the first and second year students in Faculty.

VET DINNER

The VET Dinner is an annual event where Faculty staff, lecturer and students gather to appreciate the final year students and celebrate the successful completion of their arduous journey through the veterinary programme.

VET SPORTS

The Vet Sports weeks is a programme that includes a variety of sports activities which include indoor and outdoor games. The programme is aimed at encouraging participation of students and the staff in sports activities. These sports activities serve as an opportunity for students and staff to show their talents while promoting positive social interactions among participants.

CERIATHON

Cerithon is an annual activity where students show their appreciation to the Faculty by working in close cooperation to clean and tidy the faculty. The activity is voluntary but students have never failed to give full support to the event.

MAJLIS SILATULRAHIM

Majlis Silatulrahim is an annual event organised by the Faculty of Veterinary Medicine in collaboration with the faculty student associations. It is an afternoon when students and staff takes a breather from the daily grind of work to enjoy presentations by each DVM class. The aim of this event is to encourage teamwork, foster friendship, develop tolerance and understanding within the family of the Faculty of Veterinary Medicine. This is an opportunity for students to display their talents such in music, acting, dancing, and story-telling. The presentation is judged by a panel selected by the Faculty and the winning presentation receives the "Ali Rajion Trophy", honouring Professor Dr Ali Rajion, the founder of this programme.

DOGATHON

Dogathon was started in 1997 as a platform to enhance public awareness of strays, and to promote responsible pet ownership. The event is a great way for the society to be involved in addressing

issues of stray dogs. Dogathon is, organised by the third year veterinary students of the Faculty, to raise funds and contribute to the annual PRO-KASIH programmes. Although the mission of the programme is a serious one, the event is fun-filled, and an opportunity for dog owners to indulge in something out of the ordinary with their pets in the calm environs of Bukit Ekspo, UPM. The highlight of the event is the Dogathon Race. This involves both dogs and owners running side-by-side for 2.6 km early in the morning through the cool shades of the trees in UPM campus. This event has been a consistent favourite among dog-owners. Some dog owners club may even organize get-togethers during Dogathon, to promote not only their breeds of interest, but also ongoing activities of their respective interest groups.

ONE HEALTH STUDENT CLUB

The Malaysia One Health University Network (MyOHUN), was initiated in 2012 as a part of the regional network of Southeast Asia One Health University Network (SEAHOUN). This network was built to promote the philosophy and spirit of One Health in response to emerging and re-emerging diseases. The members of MyOHUN currently comprises of academicians from Universiti Putra Malaysia and Universiti Kebangsaan Malaysia.

The One Health Student Club is under the auspices of VETERNAK, and involved in One Health activities funded by MyOHUN.

PUTRABIZ@VET

The Faculty received a sum of RM100,000 from the Ministry of Education (MOE) to finance training and activities in PutraBiz@Vet Entrepreneurship Incubator programme. The programme aimed to inculcate entrepreneurialship among students, while facilitating the development of a veterinary entrepreneurship network database, derived primarily from the alumni of the Faculty. PutraBiz@Vet operates a store that sells stationeries, books, basic veterinary equipments, lab coat, overalls and other needs at a competitive price. Putrabiz is also responsible for other ancillary businesses such as vending machines.

INTERNATIONAL VETERINARY STUDENTS ASSOCIATION (IVSA)

The International Veterinary Students Association was established in 1951 in Denmark to promote international exchange of veterinary education, knowledge and experiences among veterinary students of various countries and regions of the world. The association, of which the Faculty is a member, has a membership comprising of veterinary schools from more than 50 countries. The Malaysian chapter of the association is known "IVSA Malaysia". IVSA encourages, supports, and funds individuals and groups to participate in exchange programme. We had our first student exchange experience in 2012 where Faculty students embarked on an exchange programme with South African Veterinary students. IVSA has also facilitated several other student exchanges involving Malaysian, French, and South Korean veterinary students. Other activities of IVSA include organisation of international congresses and symposiums for veterinary students to exchange ideas on animal health problems afflicting various countries. The association also provide veterinary education assistance to certain underdeveloped countries.

MAHASISWA ISLAM VETERINAR (MIVET)

The Mahasiswa Islam Veterinar, also known as 'MIVET' is an organisation developed by Faculty veterinary students to uplift their Islamic values. Minggu Penghayatan Islam Veterinar (MPIV) was organized in September 2012 to review the commitment of students to Islamic principles. The objectives of the club are:

- To foster Islamic knowledge and practices among Faculty veterinary students during their pursuit of veterinary professionalism
- To encourage students to adhere to the principles of Islam so that they become better Muslims
- To inculcate Islamic ethics and morality in students so that they can serve the society and nation with absolute responsibility and commitment
- To convince Muslim veterinary students that the Islamic way of life is the only way to success now and hereafter
- To develop a spiritual environment based on Islamic principles conducive for the achievements of worldly and heavenly goals

Hubungi kami/Contact us:

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HANDBOOK
Doctor of
Veterinary
medicine

BUKU PANDUAN

**DOKTOR
PERUBATAN
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2020