



# STUDENT HANDBOOK

Bachelor of Veterinary Science (BVSc)

Batch 2018/19

Student Handbook - Batch 2018/19



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Faculty of Veterinary Medicine and Animal Science  
University of Peradeniya

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FACULTY OF VETERINARY MEDICINE  
& ANIMAL SCIENCE

## MESSAGE FROM THE VICE CHANCELLOR



It is with great pleasure that I welcome all the new entrants to the Faculty of Veterinary Medicine and Animal Science on behalf of the University of Peradeniya. Those who gained admission to the University of Peradeniya are indeed a privileged group considering the numbers who qualify to enter to the Sri Lankan University system. Obviously, the primary objective of a veterinary undergraduate would be to complete the course in Veterinary Medicine and Animal Science successfully and become a competent veterinarian. The University of Peradeniya is the only institution in the country which offers this special field of study with an environment conducive for intellectual pursuits of the highest standards. The university has one of the best libraries in the South Asia covering many branches of learning. Hence, those who gained admission to the University should make use of this unique opportunity using the faculties provided and lay a solid foundation for their future by achieving academic excellence.

In comparison to the most universities in the country, University of Peradeniya is the only residential university that provides full complement of facilities besides providing excellent academic training program. It also provides facilities such as sports and many other supplementary opportunities to the undergraduates. I firmly believe that the students should make use of these opportunities to improve their physical and mental fitness, leadership qualities, interpersonal and communication skills to become useful citizen to the Country.

In addition, the University of Peradeniya also has many student societies covering wide interests ranging from nature exploration, conservation and scientific innovation to cultural music, drama and religious and social activities. The students can gainfully engage themselves in activities of these societies to broaden their horizons.

I take this occasion to wish all of you a very pleasant and a memorable stay at the University and every success in your future academic activities.

Professor Upul B. Dissanayake

Vice-Chancellor  
University of Peradeniya



## PREFACE



The Faculty of Veterinary Medicine and Animal Science is the only faculty in the Sri Lankan university system that offers the Bachelor of Veterinary Science (BVSc.) degree. We have tried our utmost to ensure that the BVSc. degree programme will produce competent graduates who will be an asset to the veterinary profession, both locally and globally. This handbook is intended to provide information to undergraduates on the general organization of the faculty and the functions of its various departments, centres, and units. Most importantly, the handbook provides information on the academic courses over the five-year degree programme and examination procedures. **I sincerely hope that students will familiarise themselves with the course details and examinations**, which will pave the way for a **successful undergraduate career**.

We have been changing teaching practices over the years to deliver a more student-centred learning experience where students actively participate in the learning process both within and outside the classrooms, facilitated by our teaching staff. Thus, students are required to have a pro-active role in learning and to develop problem-solving skills which are needed when they graduate and enter the competitive job market or pursue postgraduate studies.

This edition of the handbook provides details of the BVSc. curriculum first introduced in 2020. This five-year curriculum was developed with the help of a twinning programme with Massey University, New Zealand under the purview of the World Organisation for Animal Health (OIE). Some major objectives of the new curriculum are to (1) provide increased clinical exposure with a fifth year dedicated to clinical appointments; (2) inculcate critical thinking skills among students using problem-based learning methods; (3) enhance soft skills such as teamwork and communication by incorporating professional studies in the study programme; and (4) promote life-long learning by means of student-centred teaching strategies.

This handbook provides information to undergraduates on all courses and examinations offered during the BVSc. programme and the spread of courses across the five-year duration. Students start with learning the fundamental sciences (via courses in anatomy physiology, and biochemistry) in the first year but are also exposed to animal handling and observation of animal behaviour, welfare, and clinical practice from the beginning (via courses in animal science). More than half the academic programme in the first year comprises practical classes, thus enabling students to develop essential skills. In their second year, students learn the foundations of disease including pathology, microbiology and parasitology and will start learning the basics of clinical practice and therapeutics. These are reinforced in the third year and fourth years, where all lectures pertaining to the course will be completed. These include medicine, surgery and therapeutics of production, companion, and wild animals as well as courses on preventative medicine such as public health and epidemiology. Concepts of animal science including animal management and nutrition will be taught throughout the course. Starting from the first year, students will have hands-on experience in the teaching hospital and teaching farm, as well as exposure to clinical cases outside the faculty. The final year is entirely devoted to clinical work, with some clinical appointments being electives, so that students may gain extra knowledge in the areas they are most interested in. **All examinations** throughout the five years **contribute towards the final BVSc. degree**.

The handbook also provides information on common amenities available to students at the University of Peradeniya. This includes information on recreational facilities, student societies, student accommodation, counselling and health services, as well as the rules and regulations pertaining to undergraduates. I have no doubt that this Student Handbook will be of immense value to veterinary undergraduates to prepare themselves for the BVSc. programme and their university life.

Dr. D.M.S. Munasinghe

Dean  
Faculty of Veterinary Medicine and Animal Science  
January 2020

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## 1 UNIVERSITY OF PERADENIYA



### 1.1 Physical Setting

The University of Peradeniya is located amidst great natural beauty just 8 km from the city of Kandy, the historic capital of the last independent kingdom of Sri Lanka. Access to the university premises is through the Galaha road, close to the Royal Botanical Gardens of Peradeniya, a popular tourist attraction, famous for its rare tropical plants and orchids. Peradeniya is 110 km from Colombo and can be reached within three and half hours by road or railway. The nearest railway station, 'Sarasavi Uyana', is located within the campus. The University is situated East and South of the Peradeniya town where the Colombo - Kandy road crosses the Mahaweli River, the longest river in Sri Lanka. It straddles the valley of the Mahaweli and spreads part of the way up the Hanthana ranges on the East. The Mahaweli River flows across the campus towards the north enhancing the natural beauty of the university.

The area of land vested in the University is approximately 2500 acres, extending down the valley of the Mahaweli River from Hindagala to Peradeniya Bridge. About 300 acres have been developed to accommodate the faculties, halls of residence, staff bungalows, administrative offices and centres for extracurricular activities.



### 1.2 History

The origin of the University of Peradeniya runs back to the University of Ceylon established in Colombo in July 1942. After the lengthy battle of sites which took place in the State Council of then Ceylon and after lengthy deliberations, Peradeniya was selected as the preferred site to

establish the new university due to its picturesque location, moderate climate and the availability of adequate space. Sir Ivor Jennings, on his first visit to the campus site in 1944 stated that “No University would have such a setting.”

The architectural designs of the university were formulated by Shirley De Alwis and Sir Patrick Abercrombie under the meticulous direction of the first Vice Chancellor, Sir William Ivor Jennings. The university was officially and ceremonially opened and named the University of Ceylon, Peradeniya on 20<sup>th</sup> April 1954 by the Duke of Edinburgh. The University of Peradeniya was made an independent establishment under the name “University of Peradeniya, Sri Lanka” under section 139 (1) of the Universities Act (No 16 of 1978).

Initially, the faculties of Agriculture and Veterinary Science (1949), Arts (1952), Dental Sciences (1954), Medicine (1962) and Science and Engineering (1964) were established. The Faculties of Allied Health Sciences (2006) and Management (2015) were established relatively recently.



### 1.3 Climate

The university is situated at an elevation of 500-1000 meters above sea level and has a comfortable mild climate endemic to the Sri Lankan hill country. Peradeniya is in the wet zone of the country and receives a rainfall of 100 inches from the two monsoons spread throughout the year. There is usually a short dry season in January and February.

The environmental temperature fluctuates between 18-30 °C. Higher temperatures are usually experienced in the months from February to May with a progressively lower temperature in the second half of the year. The nights are cool, and the mornings are misty in the months of December and January.

### 1.4 University Park

The University park has numerous trees, that have been planted at the commencement of construction of the university. Most of them flower in early March. The University park flourishes with blossoming flowers from May to August. Flowers line the pathways of the university situated in the vicinity of the Arts faculty along the banks of the Mahaweli river. There are a variety of shade trees in the University Park including the forest reserve at the upper region of the Hantana range which covers about 350 acres.



## **1.6 Vision, Mission, Values and Goals of the University**

### **Vision**

Be a Centre of excellence in higher education with national, regional and global standing.

### **Mission**

University of Peradeniya strives to offer globally recognized knowledge and education to knowledge seekers at undergraduate, postgraduate and non-graduate levels and deliver education, training and research programs by conducting professional and curriculum-based teaching and learning and conduct high quality research for national, regional and global needs whilst maintaining highest levels of efficiency, effectiveness, integrity and transparency in contributing to the development of a knowledge-based society.

### **Values**

- Highest standards of teaching, learning and research
- Academic freedom
- Integrity and transparency in all its functions
- Respect for cultural diversity

### **Goals**

- Quality and relevance of all undergraduate & postgraduate programs in the University, enhance to achieve international recognition in higher education.
- Develop resources to enhance the quality of research contributing to the national and international requirements available.
- Enhance administrative and financial efficiency within the framework of corporate governance.
- Increase opportunities for a wider range of educational programs to contribute to the development of a knowledge- based society.
- Enhance Physical & human resources to offer a conducive and aesthetic environment for academic pursuits.

## 1.7 University Crest

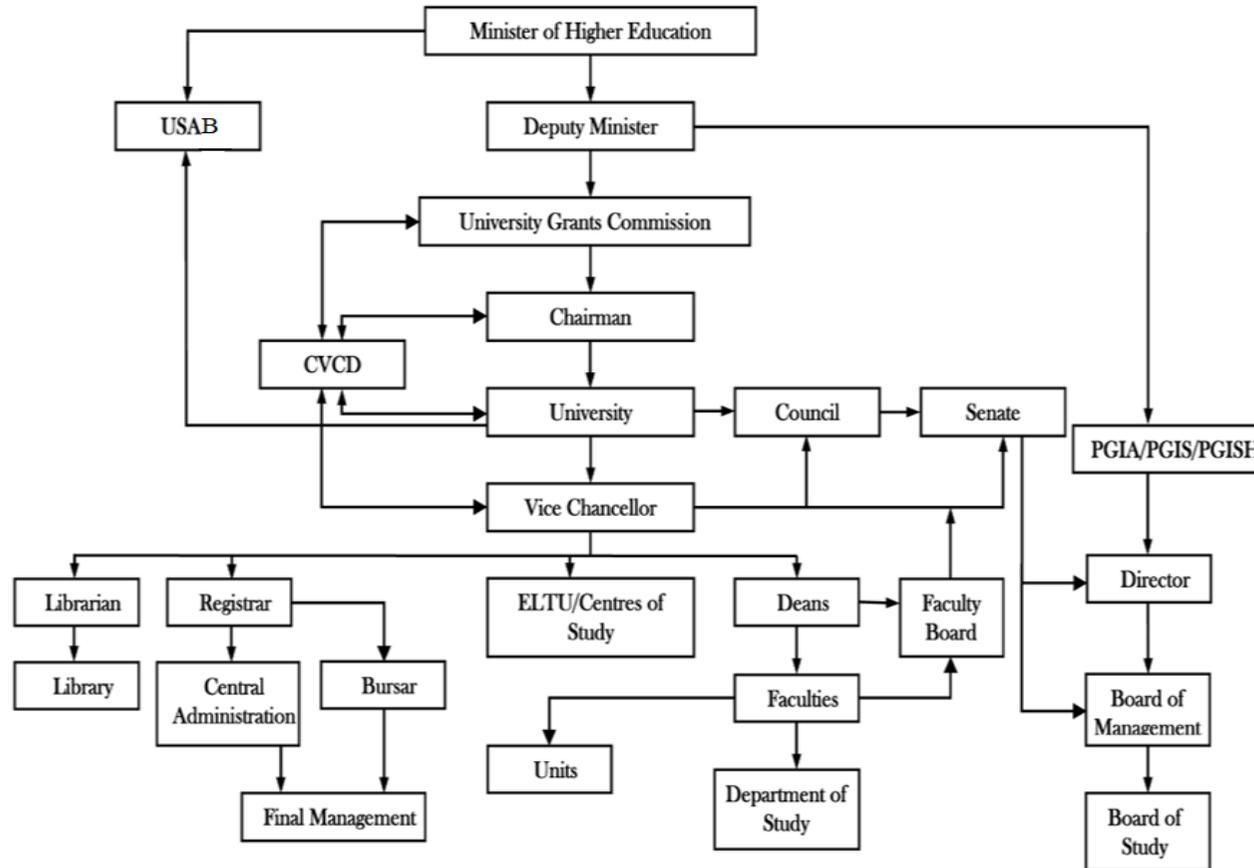


In establishing its identity at its inception in 1942, the University of Ceylon decided that a coat-of-arms would not be in keeping with the traditions of an oriental country. Instead, it chose a symbol with a lion motif that has remained the university's logo over the years although small changes were made during its transformation into the University of Peradeniya.

The original logo of the university consisted of a lion the lion being the symbol of Sri Lanka--surrounded by a circle containing the Sanskrit motto "Sarasavi Locanam Sastram" (knowledge is the eye unto all) and the words University of Ceylon in English. Outside the circle was a design of "Pala Pethi", a symbol of purity and wisdom in indigenous art, represented here by stylized lotus petals of the Kandyan period. The colours of the logo are gold on maroon.

In 1978, when the University of Peradeniya became an independent entity, the council adopted the logo of the University of Ceylon without the Sanskrit motto, but with the words University of Peradeniya in Sinhala, Tamil and English. The annual reports from 1979 came to carry the Sanskrit aphorism from Hithopadesha, "Vidya Dadati Vinayam" (knowledge gives discipline). In 1991, the Council decided to restore the original Sanskrit motto in the University logo. As it was observed that the shape of the "Pala Pethi" and the original colour combinations have changed over the years, the Council decided in 2011 to restore all the features of the Logo in accordance with its original design.

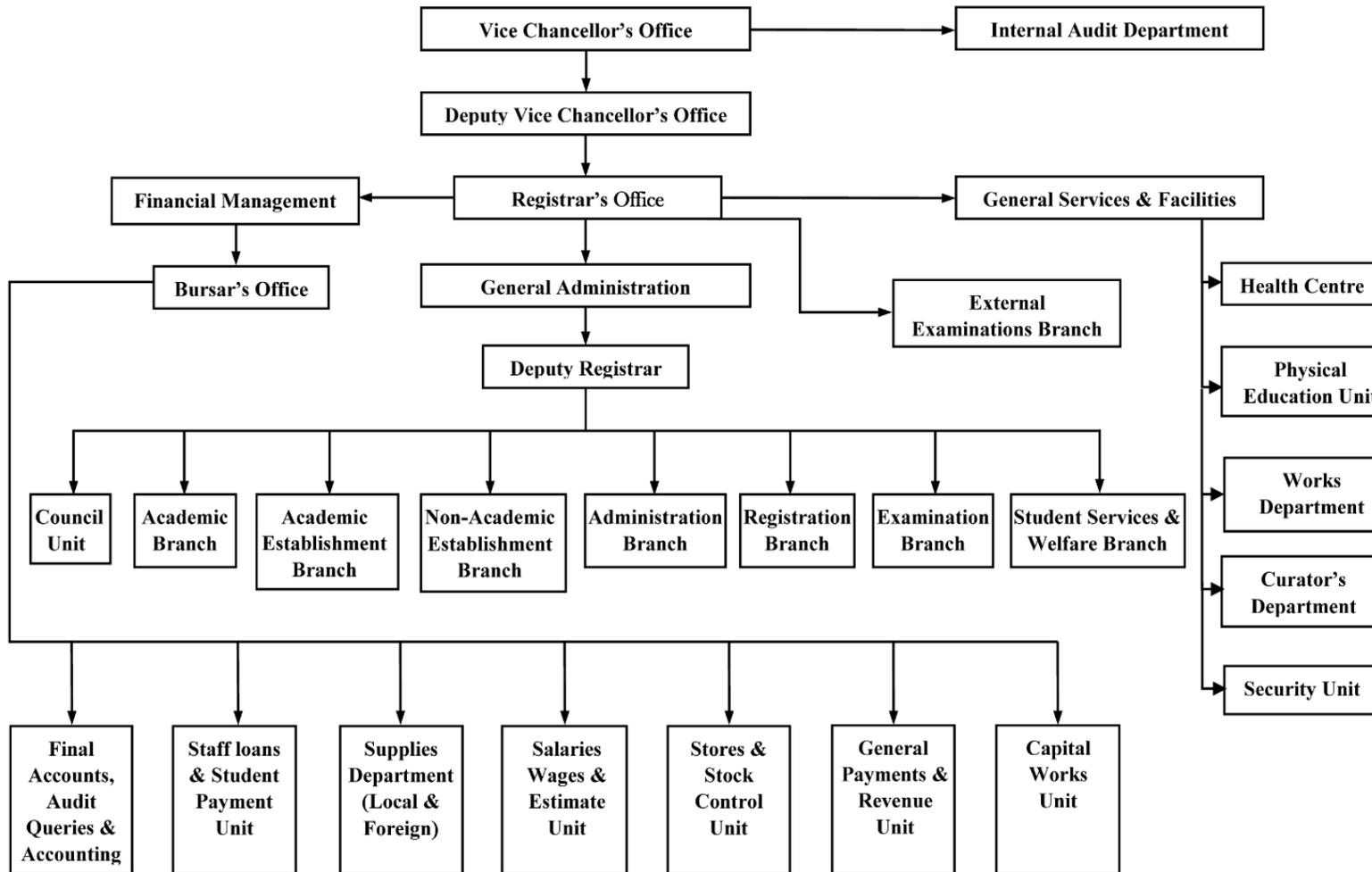
1.8 Organizational Structure of the Higher Education System of Sri Lanka



USAB - University Service Appeals Board  
 CVCD - Committee of Vice Chancellors and Directors  
 ELTU - English Language Teaching Unit

PGIA - Postgraduate Institute of Agriculture  
 PGIS - Postgraduate Institute of Science  
 PGISH - Postgraduate Institute of Humanities and Social Sciences

1.9 Organizational Structure of the University of Peradeniya



### 1.10 Faculties and Institutes

There are nine faculties and three postgraduate institutes in the University of Peradeniya

1. Faculty of Agriculture
2. Faculty of Allied Health Science
3. Faculty of Arts
4. Faculty of Dental Sciences
5. Faculty of Engineering
6. Faculty of Management
7. Faculty of Medicine
8. Faculty of Science
9. Faculty of Veterinary Medicine and Animal Science
10. Postgraduate Institute of Agriculture
11. Postgraduate Institute of Humanities and Social Sciences
12. Postgraduate Institute of Science



## 2 Faculty of Veterinary Medicine and Animal Science



The Faculty of Veterinary Medicine and Animal Science is the only Higher Educational Institution in Sri Lanka which trains Veterinary Surgeons. With the newly commenced curriculum in 2020, the degree of Bachelor of Veterinary Science (BVSc) has been extended to a five-year course. The rigorous training program imparts knowledge on all aspects of animal health and production including the study of companion animals, farm animals and wildlife. The current annual student intake is 100 per batch. The degree is recognized by the Veterinary Council of Sri Lanka for registration to practice as a Veterinary Surgeon in Sri Lanka.

### 2.1 History



The University of Ceylon was established in 1942 by the amalgamation of the Ceylon Medical College founded in 1870 and the Ceylon University College founded in 1921. Although, Sri Lanka was an agricultural country the new university did not provide any instruction in Veterinary Science. As such students wishing to become veterinarians had to proceed to overseas veterinary schools to obtain the required training. This deficiency in university education was rectified in 1947 with establishment of the Department of Veterinary Science at the Faculty of Medicine of the University of Ceylon in 1947. At the inception of this course the relevant departments of the Faculty of Medicine, namely Anatomy, Physiology, Biochemistry, Pharmacology and Pathology co-operated in the teaching programmes. In 1954, this department was shifted to Peradeniya and incorporated into the Faculty of Agriculture and Veterinary Science of the University of Ceylon. In 1973 the Department of Veterinary Science was expanded to three departments *viz.* Departments of Veterinary Preclinical, Paraclinical and Clinical Studies and upgraded as the School of Veterinary Science that was affiliated to the Faculty of Medical, Dental and Veterinary Sciences of the Peradeniya Campus of University of Sri Lanka. In early 1980, the BVSc training programme received full faculty status with four departments *viz.* Departments of Veterinary Preclinical, Paraclinical, Clinical Studies and Animal Science and the Faculty was designated as the Faculty of Veterinary Medicine

and Animal Science (FVMAS). As an interim measure, instead of forming the fourth department, the FVMAS continued to use the services of the Department of Animal Science of the Faculty of Agriculture to teach the course in animal production. In July 2000, the Faculty of Veterinary Medicine and Animal Science has been restructured with the renaming of the departments with concurrent commencement of the fourth department. At present the FVMAS consists of 5 departments, namely the Departments of Basic Veterinary Sciences, Veterinary Pathobiology, Veterinary Public Health and Pharmacology, Veterinary Clinical Sciences and Farm Animal Production and Health.

In early years of veterinary education in Sri Lanka, the curriculum of BVSc training programme was similar to that followed by the Royal Veterinary College. The BVSc curriculum underwent formal revisions during the years 1991 and 2000 to align it with the existing veterinary educational norms at the time. However, the most revolutionary curriculum revision to-date came in the year 2018 which extends the BVSc degree program to 5 years (a previous attempt to extend the BVSc curriculum to 5 years in 2008 – under a World Bank funded project titled “Improvement of relevance and quality of undergraduate training in Sri Lanka (WB-IRQUE Project)” – was turned down by the University Grants Commission at the time.)



## **2.2 Vision and Mission**

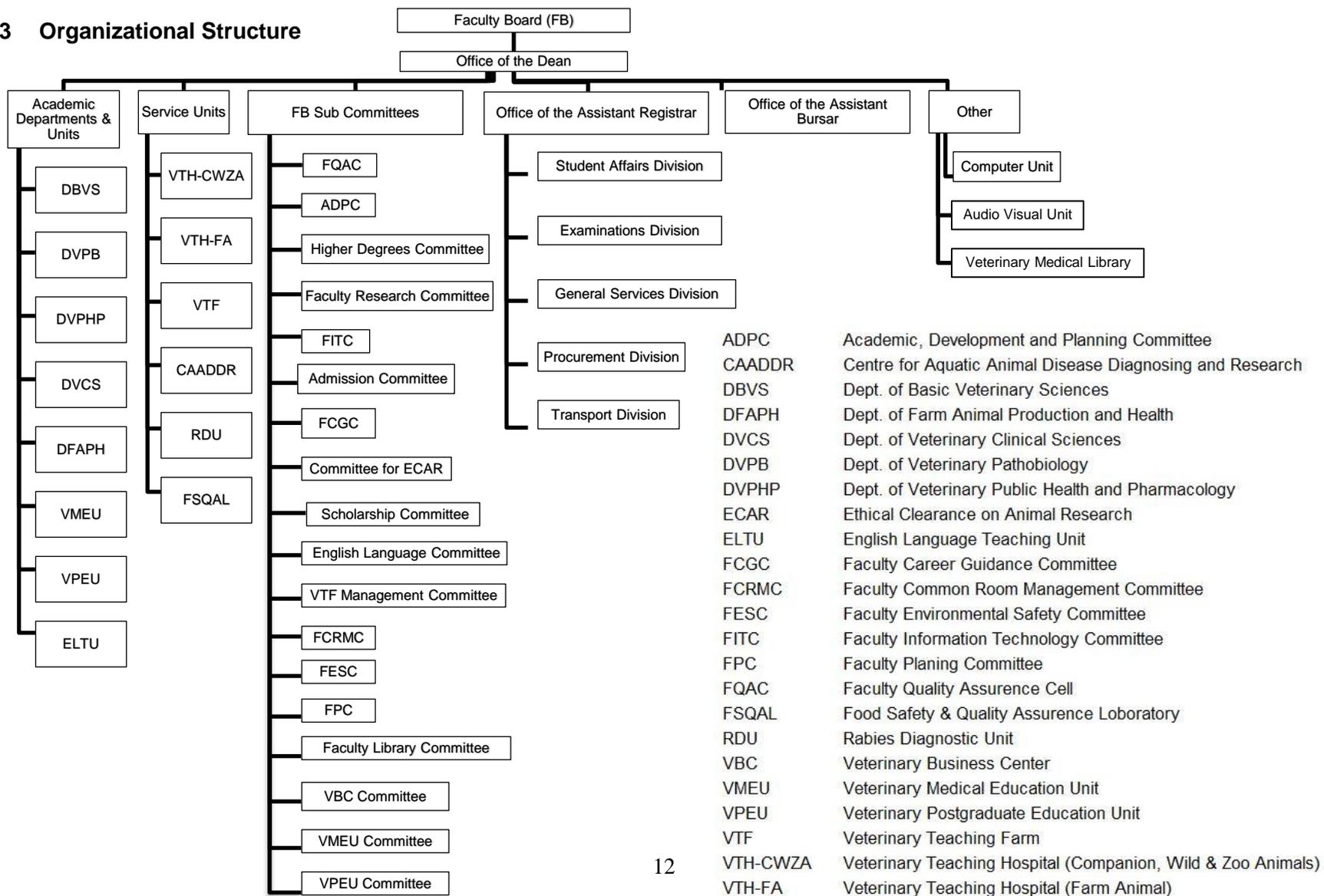
### **Vision**

To be the national centre of learning and research in veterinary medicine and animal production and to produce graduates of high standard who could confidently manage the health-care and production of farm, companion, captive, wild, aquatic and other animal species which are useful to mankind and to bring solace, happiness and profitable income to their owners.

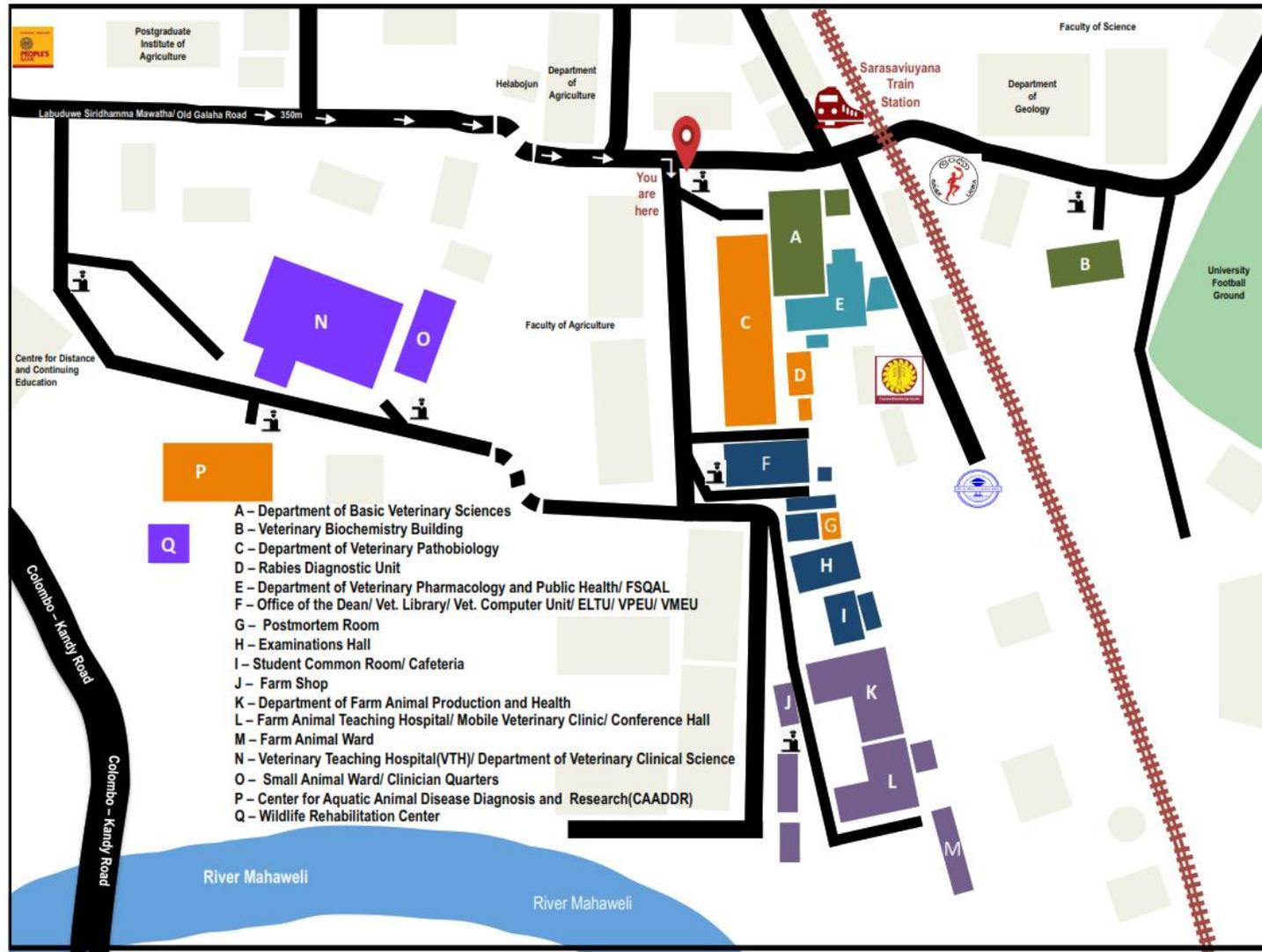
### **Mission**

To impart a sound knowledge of veterinary medicine and animal production techniques to students in order to produce competent veterinarians and scientists of high calibre, who would always strive to increase the productivity of livestock and improve the quality of life and welfare of farm, companion, aquatic, captive, wild and other animals by providing relief from suffering through healing and prevention of diseases. The mission also includes provision of i) training required to protect the community from zoonotic diseases, ii) facilities for continuous improvement of professional skills and knowledge, iii) research studies leading to higher degrees and iv) participation in policy formulation and implementation of activities on animal production, health and welfare at regional and national levels in order to secure a high standard of living for the community.

2.3 Organizational Structure



2.4 Map



## 2.5 Office of the Dean



*Dr. D. M. S. Munasinghe, Dean, FVMAS*

<b>Dean:</b>	Dr. D.M.S. Munasinghe	<b>Examinations:</b>	Ms. N. Jayasinghe
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Email:	deanvet@pdn.ac.lk	Email:	vetexam@pdn.ac.lk
<b>Assistant Registrar:</b>	Ms. K.S.G. Ranasinghe	<b>Student Affaires:</b>	Ms. S. Galapitage
Telephone:	081 239 5700	Telephone:	081 239 5732
Email:	arvet@pdn.ac.lk	<b>Transport Division:</b>	Ms. S. Ruwanmalee
<b>Assistant Bursar:</b>	Ms. A.N. Wijenayake	Telephone:	081 239 5721
Telephone:	081 239 5705	<b>General Services:</b>	Mr. N. Abeywickrama
Email:	abvet@pdn.ac.lk	Telephone:	081 239 5703
<b>Secretary to Dean:</b>	Ms. D.S. Jayasekara	Email:	nabeyw@pdn.ac.lk
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## 2.6 Senior Student Counsellors and Deputy Proctor

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## 2.7 Academic Departments

The Faculty of Veterinary Medicine and Animal Science consists of the following five academic departments.

1. Department of Basic Veterinary Sciences
2. Department of Veterinary Pathobiology
3. Department of Veterinary Public Health and Pharmacology
4. Department of Veterinary Clinical Sciences
5. Department of Farm Animal Production and Health

### Department of Basic Veterinary Sciences (DBVS)

The DBVS is mainly responsible for administering the 1<sup>st</sup> year of the BVSc degree program. Additionally, the DBVS designs and conducts postgraduate level training courses and research in basic and applied veterinary disciplines. The department consists of the following academic staff members:

Dr. W.M.A.P. Wanigasekara	Professor & Head
Dr. H.B.S. Ariyaratne	Senior Professor and Chair
Dr. D.M.S. Munasinghe	Senior Lecturer
Dr. L.J.P.A.P. Jayasooriya	Senior Lecturer
Dr. N.K. Jayasekera	Senior Lecturer
Dr. N.U.A. Jayasena	Senior Lecturer
Dr. L.G.S. Lokugalappatti	Senior Lecturer
Dr. Y.A.M.S. Wickramasinghe	Senior Lecturer
Dr. D.A. Satharasinghe	Senior Lecturer
Dr. R.M.S.B.K. Ranasinghe	Senior Lecturer
Dr. A.M. Ushani Atapattu	Lecturer (Probationary)
Dr. K.A. Sathy Nadeeshani	Lecturer (Probationary)

### Department of Veterinary Pathobiology (DVPB)

The DVPB is mainly responsible for administering the 2<sup>nd</sup> year of the BVSc degree program. The DVPB also designs and conducts postgraduate training and research programmes in applied veterinary sciences and related fields, and provides diagnostic services to the Veterinary Teaching Hospital, Veterinary Teaching Farm and to the public. The department consists of the following academic staff members:

Dr. A.W. Kalupahana	Senior Lecturer & Head
Dr. R.P.V.J. Rajapakse	Senior Professor and Chair
Dr. G.S.P. de S. Gunawardena	Senior Lecturer
Dr. A. Arulkanthan	Senior Lecturer
Dr. S.S.S de S. Jagoda	Senior Lecturer
Dr. H.R.N. Jinadasa	Senior Lecturer
Dr. R.R.M.K.K. Wijesundara	Senior Lecturer
Dr. N.M.T. Anupama	Senior Lecturer
Dr. D.P.H. Wijesekera	Senior Lecturer

### **Department of Veterinary Public Health and Pharmacology (DVPH)**

The DVPH is mainly responsible for administering the 3<sup>rd</sup> year of the BVSc degree program. This Department also provides specialized services to several state and non-governmental organizations and to the public on food safety and quality assurance, particularly on analysis of antimicrobial residues in poultry and shrimp. The Food Safety laboratory of this Department is the only laboratory in the university entire system with government accreditation. The department consists of the following academic staff members:

Dr. M.H. Hathurusinghe	Senior Lecturer & Head
Dr. R.S. Kalupahana	Senior Lecturer
Dr. B.R. Fernando	Senior Lecturer
Dr. K.S.A. Kottawatta	Senior Lecturer
Dr. H.M.T. Karunaratna	Lecturer (Probationary)

### **Department of Veterinary Clinical Sciences (DVCS)**

Together with the Department of Farm Animal Production and Health, the DVCS is mainly responsible for administering the 4<sup>th</sup> and 5<sup>th</sup> years of the BVSc degree program. The Companion, Wild, and Zoo Animal Veterinary Teaching Hospital (VTH- CWZA) is administered by the DVCS. In addition, the department provides specialized services to a number of state and non-governmental organizations and to the general public: providing specialized services to the Kennels Divisions of the Sri Lanka Police and Armed Forces; supporting the Department of Wildlife Conservation with tranquilization, capturing and translocation of elephants; providing veterinary forensic medical services to Sri Lanka Courts; and assisting state and non-governmental organizations with Rabies eradication programmes are a few noteworthy examples. The department also regularly conducts Continuing Education programmes for state and private veterinary practitioners and engages in applied and adaptive research. The department consists of the following academic staff members:

Dr. K.A.N. Wijayawardhane	Senior Lecturer & Head
Prof. A. Dangolla	Professor
Dr. D.D.N. de Silva	Senior Lecturer
Dr. R.A.D. Eranda Indrajith	Senior Lecturer
Dr. E.R.K.V. Edirimanne	Senior Lecturer
Dr. D.R. Anuruddhika Dissanayake	Senior Lecturer
Dr. H. M. Suranji Wijekoon	Senior Lecturer
Dr. H.M.H.S. Ariyaratne	Lecturer (Probationary)
Dr. M.G.C.M. Jayasinghe	Lecturer (Probationary)

## **Department of Farm Animal Production and Health (DFAPH)**

Together with the DVCS, the DFAPH is mainly responsible for administering the 4<sup>th</sup> and 5<sup>th</sup> years of the BVSc degree program. The Farm Animal Veterinary Teaching Hospital (VTH-FA) is administered by the DFAPH. It also designs and conducts postgraduate level training in farm animal health and production; engages in applied and adaptive research and Continuing Education programmes for state and private sector veterinarians. Its outreach programmes include i) professional advice and guidance to livestock and allied industries, ii) animal healthcare services to the public through the FA-VTH and ambulatory clinic and iii) provision of breeding material and technical advice to smallholder farmers through the FA-VTH. The department consists of the following academic staff members:

Dr. P.G.A. Pushpakumara	- Professor & Head
Dr. P.A.B.D. Alexander	- Professor and Chair
Dr. M.N.M. Fouzi	- Senior Lecturer
Dr. R.A.C. Rabel	- Senior Lecturer
Dr. G.D.R.K. Perera	- Senior Lecturer
Dr. K. Nizanantha	- Lecturer (Probationary)
Dr. Y.H.P.S.N. Kumara	- Lecturer (Probationary)

### **2.8 Academic Units of the Faculty**

1. Veterinary Medical Education Unit (VMEU)
2. Veterinary Postgraduate Education Unit (VPEU)
3. English Language Teaching Unit (ELTU)

#### **Veterinary Medical Education Unit (VMEU)**

The VMUE is responsible for monitoring and ensuring proper implementation of the veterinary undergraduate curriculum in collaboration with the relevant academic departments and the Academic Development and Planning Committee (ADPC-Vet) of the FVMAS (including but not limited to activities related to (i) teaching and assessment, (ii) timetabling, (iii) e-learning, (iv) exam scheduling, and (v) releasing of results of all courses including Prevet, Research Project, Integrated Veterinary Sciences and Externship/Industrial Training). The VMEU is also responsible for designing and conducting suitable Teacher Evaluation, Peer Evaluation, Course Evaluation and Examination Evaluation programs in liaison with the Faculty Quality Assurance Cell and coordinating Continuing Educational Programs/Continuing Professional Development Programs for academic and non-academic staff members of the FVMAS in liaison with the Staff Development Center of the University of Peradeniya and/or suitable organization.

Coordinator: Dr. R. A. Chanaka Rabel

#### **Veterinary Post Graduate Education Unit (VPEU)**

This Unit Designs and conducts postgraduate training programmes in veterinary medical and animal production sciences; designs and conducts Continuing Education programmes for veterinary graduates and coordinates the outreach activities of the FVMAS.

Coordinator: Dr. Rasika N. Jinadasa

### **English Language Teaching Unit (ELTU)**

The English Language Teaching Unit (ELTU) of the FVMAS is manned by the ELTU of the University of Peradeniya. The primary function of the unit is to conduct English language teaching programme for veterinary undergraduates under the supervision of the VMEU. Besides conducting formal teaching, the teaching staff of the unit also provides assistance in correcting student project reports, term papers and other assignments.

Coordinator: Mr. M.I.L De Zoysa (Lecturer in English)

ELTU Sub-committee chairperson: Dr. N. U. Jayasena



### **2.9 Faculty Board Sub-committees**

1. VMEU Committee
2. Academic, Development and Planning Committee
3. Higher Degrees Committee
4. VPEU Committee
5. Faculty Information & Technology Committee
6. Admission Committee
7. Research Committee
8. Committee for Ethical Clearance on Animal Research
9. Scholarship Committee
10. English Language Committee
11. VTF Management Committee
12. Faculty Common Room Management Committee
13. Committee for Faculty Quality Assurance Cell
14. Faculty Planning Committee
15. Library Committee
16. Committee for Veterinary Business Center
17. Faculty Career Guidance Committee
18. Faculty Environmental and Safety Committee

## 2.10 Veterinary Medical Library

Veterinary Medical Library (VML) is one of the 7 branch libraries managed by the Library of the Peradeniya University. It offers lending and reference facilities in all subjects related to the BVSc programme. It provides seating capacity for approximately 100 students and carries a collection of approximately 5500 volumes of textbooks and wide spectrum of other forms of printed material. In addition, the VML provides facilities for the use of electronic information, both World Wide Web-based and computer-based learning material including a collection of educational videos and CDs. The VML located at the Old Galaha road within the premises of the Faculty of Veterinary Medicine and Animal Science, on the top floor of the Administrative Building.



### Contact Information:

Phone: 0812395885/ 0812395883  
Assistant Librarian: Mrs. Sureni Weerasinghe BSc (Hons) M.L.S. (Colombo)

Web: <http://www.lib.pdn.ac.lk/libraries/vet/>  
Opening hours: 7.15 am to 6.00 pm (Weekdays)  
8.00 am to 4.15 pm (Saturdays)

## 2.11 Computer Unit

Computer Unit of the Faculty offers services of 45 workstations for veterinary undergraduates. The unit is manned by a computer programmer and Technical Officer. While the unit is providing access to students to use the facility for information search, computer-aided learning material, and inter-net facilities, the technical staff of the unit also provides training for students in the application of computer software packages for academic purposes.

**Officer In Charge:** Mr. B.A.G. Harischandra



## 2.12 Service Units

### Veterinary Teaching Hospital

The FVMAS has two Veterinary Teaching Hospitals, namely Companion, Wild, and Zoo Animal Veterinary Teaching Hospital (VTH- CWZA) and the Farm Animal Veterinary Teaching Hospital (VTH-FA). The VTH- CWZA and VTH-FA are administered by DVCS and DFAPH, respectively.

The CWZA-VTH operates an outpatient service from 8.00 am to 7.0 pm on Monday through Sunday and a 24-hour emergency service. This division also provides warding facilities for a limited number of sick animals.

Services of the VTH-FA are primarily offered through its mobile veterinary/ ambulatory clinic which mainly provides services to smallholder farmers in and around Peradeniya. On request, the ambulatory unit also provides services to large state-owned and private farms. In addition, the VTH-FA has facilities for warding different types of farm animals including but not limited to cattle, goat, sheep, horses.

Construction of a state-of-the-art VTH-FA is underway with government funding. It is expected to be completed in 2021.



### **Veterinary Teaching Farm (VTF)**

The Veterinary Teaching Farm is managed by the DFAPH and is established on a 25-acre land, located at Mawala, Uda-Peradeniya. It has facilities for housing dairy cattle, buffalo, broilers, layers, pigs and goats and therefore provides facilities for practical training in all relevant animal production and health subjects. The dairy and buffalo units as well as the piggery were recently refurbished to modern standards. In addition, the VTF has facilities for accommodating 15 to 20 students. In addition to teaching, the VTF aims to supply breeding material and technical guidance on livestock farming to smallholder farmers countrywide.



### **The Centre for Fish Diseases Diagnosis and Research (CAADDR)**

The Centre for Fish Diseases Diagnosis and Research has been established as the national laboratory for providing disease diagnostic services to aquaculture sector. Besides that, it is expected to provide training to veterinarians, aqua culturists, extension staff and farmers. The facility is being developed at present with financial assistance from Asian Development Bank funded project titled “Aquatic Resources Development and Quality Improvement Project”, granted to the Ministry of Fisheries and Aquatic Resources. The project is implemented in coordination with National Aquatic Resources Development Authority and the CAADDR will become fully operational by the latter part of 2006.



### **The Rabies Diagnostic Unit (RDU)**

The Rabies Diagnostic Unit is being established with the assistance from Japan through a link programme established between the Faculty of Veterinary Medicine and Animal Science and the School of Veterinary Medicine of the University of Hokkaido, Japan. The RDU unit will perform three functions, namely providing Rabies diagnosis services to the public, conducting epidemiological studies covering animal rabies and incidents of human exposures and vaccination and dog/cat neutering services to the public in liaison with municipal and state veterinary service units.

### **The Food Safety and Quality Assurance Laboratory (FSQAL)**

The Food Quality Safety and Quality Assurance Laboratory has been established with the assistance from the Joint Division of Food and Agriculture Organization - International Atomic Energy Agency (FAO/IAEA) through a Technical Cooperation Project awarded to the Faculty. FSQAL is the only facility of this nature in the country and at present it offers services to the fish / shrimp producers/exporters and poultry producers/exporters. It also provides back-up services to regulatory authorities. Capacity of the FSQAL is further being expanded and this unit will be able to expand the residue testing services to detect a wide array of potential residues in animal food and food products.

### 3 Curriculum of the BVSc. Degree Program

#### 3.1 General Guidelines

1. The BVSc programme shall be conducted over 10 Semesters and consist of 58 courses totalling 157 credits.

2. In the calculation of 'Volume of Learning', the proposed BVSc curriculum has adopted the guidelines established by the Academic Development and Planning Committee (ADPC) of the University of Peradeniya (Tables A and B). In addition, the proposed BVSc curriculum also satisfies SLQF guidelines as per Commission Circular No 05/2013 (i) dated 25th August 2017 (Ref: Sri Lanka Qualifications Framework; September 2015, p 8).

Table A

	<b>Hours per</b>
Lectures	15 hours
Tutorials	15 hours
Demonstrations	15 hours
Practical	30 hours
In-Class Assignments	30 hours
Clinical work	45 hours
Field work	45 hours
Small group discussions	15 hours

Table B

	<b>*Notional hours per</b>
Industrial Training	90 hours
Research Project	90 hours
Clinicals (by observation)	60 hours

\* Notional learning hours include direct contact hours with teachers, time spent in self-learning, preparation for assignments, carrying out assignments and assessments.

3. An orientation programme consisting of courses on English, Information and Communication Technology (ICT), Introduction to University and Professional Life will be conducted prior to the commencement of the academic program.

4. A semester consists of 15 weeks except semesters 9 and 10 which are 16 weeks. The semesters are identified by their year and number. i.e. Year one Semester one (Y1S1), Year one Semester two (Y1S2), Year two Semester one (Y2S1), Year two Semester two (Y2S2), Year three Semester one (Y3S1), Year three Semester two (Y3S2), Year four Semester one (Y4S1), Year four Semester two (Y4S2), Year five Semester one (Y5S1), Year five Semester two (Y5S2).

5. Each course will be assessed with one or more continuous assessments and an end-semester examination. For detailed rules and regulations governing examinations, refer to section 3.6.

### 3.2 Graduate Profile

Competency	Competency descriptors
<p><b>1. Intellectual skills</b> <i>(knowledge in core and allied disciplines)</i></p>	<ol style="list-style-type: none"> <li>1. Be able to demonstrate sound knowledge in diagnostic, preventive and therapeutic procedures in companion, livestock, poultry, aquatic, zoo and wild animal species.</li> <li>2. Be able to demonstrate sound knowledge on common surgical procedures on companion, livestock, poultry, aquatic, zoo and wild animal species.</li> <li>3. Be able to demonstrate sound knowledge and understanding of animal production from veterinary perspective.</li> <li>4. Be able to perform routine veterinary public health procedures and assess the safety and compliance of food of animal origin.</li> <li>5. Be able to display sound knowledge on legislations pertaining to veterinary practices and services including rules, regulations and codes of practices.</li> <li>6. Be able to demonstrate knowledge and understanding of principles of feed formulation.</li> <li>7. Be able to demonstrate knowledge and understanding of practice of feed formulation.</li> <li>8. Be able to demonstrate knowledge in basic concepts of livestock economics, business management and extension methodologies, and</li> <li>9. Be able to demonstrate fundamentals of basic tools and techniques in scientific inquiry and investigations, and analysis and reporting.</li> </ol>
<p><b>2. Practical skills</b> <i>(clinical and practical skills in animal health and production)</i></p>	<ol style="list-style-type: none"> <li>1. Be able to perform diagnostic, therapeutic and preventive procedures in companion, livestock, poultry, aquatic, wild and zoo animal species.</li> <li>2. Be able to perform routine surgical procedures on companion, livestock, poultry, aquatic, zoo and wild animal species.</li> <li>3. Be able to advise farmers and entrepreneurs engaged in livestock, poultry, and aquatic-animal farming for optimum production, from veterinary perspective</li> <li>4. Be able to assess the nutritional status of companion, livestock, poultry, and aquatic animals and advise on the principles of feeding</li> <li>5. Be able to assess breeding and welfare of companion, livestock, poultry, and aquatic animals and advise accordingly</li> <li>6. Be able to assess the health status of zoo and wild animals and manage accordingly</li> <li>7. Be able to perform routine gynecological and obstetrical procedures and interventions in farm and companion</li> </ol>

	<p>animals.</p> <p>8. Be able to perform routine veterinary public health procedures, and</p> <p>9. Be able to undertake scientific inquiry, investigation, analysis and reporting.</p>
<p><b>3. Numerical, analytical &amp; problem-solving skills</b></p>	<p>1. Be able to deal with numbers, collect and collate data, analyze using simple statistical methods and/ or software programs, and interpret summary information.</p> <p>2. Be inquisitive, and able to think critically and rationally, and possess problem solving skills.</p>
<p><b>4. Communication skills</b> <i>(skills in writing, oral communication and presentation)</i></p>	<p>1. Be able to communicate effectively in writing and speaking.</p> <p>2. Be able to prepare scientific presentations and entertain questions from the audience in professional manner.</p>
<p><b>5. ICT skills</b> <i>(basic and advanced, skill relevant to professional work)</i></p>	<p>1. Be literate with ICT and be aware of availability of diverse ICT tools.</p> <p>2. Be able to use appropriate and modern ICT tools in academic and professional work.</p>
<p><b>6. Teamwork and interpersonal skills</b> <i>(empathy, enthusiasm, commitment, initiative, teamwork &amp; leadership, and interpersonal and social skills)</i></p>	<p>1. Be assertive, proactive, creative and able to lead and do teamwork.</p> <p>2. Be aware of the Sri Lankan society and ethnic, religious, and linguistic diversity that exist in the society and be able to live in harmony with adverse and diverse social environments.</p> <p>3. Be compassionate and possess interpersonal skills to interact with diverse people and conduct effectively in public and private employment environments.</p>
<p><b>7. Professional skills</b></p>	<p>1. Be committed to the veterinary profession, and to uphold professional norms and ethics.</p> <p>2. Be committed to providing services to the livestock, poultry, companion, wild and zoo animal sectors and contribute in general to socio-economic development of the country.</p>
<p><b>8. Self-management skills</b></p>	<p>1. Be aware of personal limitations, and be willing to seek professional advice, assistance and support as and when necessary.</p> <p>2. Be aware of the need for continuing education, training, professional development and professional conduct.</p>

### 3.3 Day-1 Competencies of the BVSc Graduate Programme (Learning Outcomes)

This section sets out the minimum essential competencies that the University of Peradeniya expects all veterinary students to have met when they graduate, to ensure that they are safe to practice on Day One, in whichever area of the profession they start to work.

Competence is a concept that integrates knowledge, skills and attitudes, the application of which enables the professional to perform effectively, including being able to cope with contingencies, change, and the unexpected. The Faculty has adopted the RCVS definition of competence in a job as; the ability to perform the roles and tasks required by one's job to the expected standard. The standard of competence expected at any given time will vary with experience and responsibility and consider the need to keep up to date with changes in practice. Competence is therefore a relative term and increasing levels of competence will be expected throughout the professional's career.

#### 1. General Attributes

Graduates will be able to;

- i) demonstrate sound knowledge and skills in diagnostic, preventive and therapeutic procedures, and welfare of companion, livestock, poultry, aquatic, zoo and wild animal species,
- ii) apply high standards of veterinary professional ethics in carrying out day-to-day duties,
- iii) demonstrate sensitivity to Sri Lankan society and ethnic, religious, and linguistic diversity that exist in the society and contribute towards social cohesion and ethnic harmony,
- iv) effectively use techniques of scientific inquiry and investigations, including analysis and reporting,
- v) communicate effectively in writing and speaking as appropriate for the audience,
- vi) demonstrate effective numerical, data analytical and IT skills at a level appropriate for a veterinary professional,
- vii) behave professionally, including showing an awareness of the need for continuing education, training, and professional development, and
- viii) seek professional advice, assistance and support as and when necessary due to personal limitations.

#### 2. Clinical Abilities

Graduates will be able to;

- i) perform thorough clinical (including gynecological and obstetrical) examinations on companion, farm, zoo, wild and aquatic animal species,
- ii) select, use, interpret and, where appropriate, perform relevant diagnostic procedures (e.g. diagnostic imaging, clinical pathology), and critically evaluate the uses and limitations of each of those,
- iii) accurately diagnose common medical, surgical and infectious disorders that occur in animals in Sri Lanka; and develop appropriate treatment and/ or preventive programs

- for managing such conditions,
- iv)** correctly and aseptically perform routine surgical procedures under clinical, hospital and field conditions,
  - v)** assist in planning and implementing effective disease prevention and vaccination programs,
  - vi)** perform a necropsy, collect and submit relevant specimens for laboratory examination, prepare comprehensive reports and interpret findings in a language suitable to its final audience.
  - vii)** conduct fertility investigations on individual animals and herds, analyze findings, interpret results and produce herd fertility reports and initiate therapeutic interventions on animals where indicated,
  - viii)** apply modern reproductive biological techniques in the context of the needs to improve reproductive efficiency and productive performance of companion, farm, zoo and wild animals in Sri Lanka,
  - ix)** use veterinary products appropriately with emphasis to appropriate record keeping, drug withdrawal periods, drug residues, and development of drug resistance, and undertake basic clinical investigations, emergency treatment and disease surveillance; and perform medical and minor surgical treatment procedures for zoo and wildlife species.

### **3. Infectious Diseases and Epidemiology**

Graduates will be able to;

- i)** utilize the general principles of descriptive epidemiology in investigation and control of outbreaks of infectious disease,
- ii)** identify clinical signs, clinical course, transmission potential (including vectors), and pathogens associated with major endemic, transboundary and exotic infectious diseases that are of relevance to Sri Lanka,
- iii)** explain the methods for controlling infectious diseases, including early detection systems, routine and emergency vaccination programs, culling programs, and the role of State Veterinary Services in controlling disease incursions,
- iv)** explain the rationale and methods for collection, and subsequent handling of samples for diagnosis of endemic, transboundary and exotic infectious diseases,
- v)** demonstrate knowledge on the procedures in Sri Lanka for compulsory notification of specific diseases; knowledge of sources of information regarding endemic, transboundary and exotic diseases that are of relevance to Sri Lanka, and
- vi)** use antimicrobial/ antiparasitic drugs according to the principles of minimizing the risk of developing drug resistance.

#### **4. Veterinary Public Health**

Graduates will be able to;

- i) take necessary action to prevent, control and report zoonotic diseases with an emphasis to one health approach,
- ii) assess the safety and compliance of food of animal origin including participation in ante- and post-mortem inspection of animals at slaughter,
- iii) assess and authorize on-farm food safety practices, and
- iv) explain the relationship between animal and human health.

#### **5. Animal Production**

Graduates will be able to;

- i) carry out veterinary practices relevant to breeding, feeding, housing and other management aspects in livestock, poultry and aquatic species relevant to Sri Lanka,
- ii) assess the nutritional and production status of an animal/herd from a veterinary perspective and advise the farmer on corrective measures,
- iii) assess nutritive value and safety of feedstuffs for food animal species important to Sri Lanka, and
- iv) identify the need for extension services related to animal health and welfare, and facilitate necessary interventions

#### **6. Animal Welfare**

Graduates will be able to;

- i) explain animal welfare and related responsibilities of owners, handlers, veterinarians and others responsible for the care of animals,
- ii) act as advocates for the welfare of animals including, but not limited to, animal production, transport and slaughter for human consumption and disease control, and
- iii) provide leadership on ethical considerations involved in the use and care of animals

#### **7. Legislation and Certification**

Graduates will be;

- i) Able to display general knowledge of national veterinary legislation and of specific rules and regulations governing the veterinary profession,
- ii) able to examine and monitor animals to certify freedom from disease,
- iii) able to complete animal health certification in compliance with national and local legislation, and
- iv) aware of the OIE Advanced Competencies as they apply to Day-1 graduates.

**3.4 Curriculum Layout**

Credit Hours																
Semester	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	IVS I	Anatomy and Physiology I					Biochemistry I				Animal Science I	Prof. Studies I		English I		
2	IVS II	Anatomy and Physiology II					Biochemistry II				Animal Science II		Prof. Studies II	English II		
3	IVS III	Introduction to Vet. Clinical Practice	Anatomy and Physiology III			Vet. Bacteriology and Mycology			Immunology		Animal Science III					
4	IVS IV	Clinical Pathology and Diagnostics		Vet. Pathology I		Vet. Virology		Vet. Parasitology I		Vet. Pharmacology I	Animal Science IV					
5	IVS V	Companion Animal Health I			Vet. Pathology II		Vet. Parasitology II		Vet. Pharmacology II		Farm Animal Production and Health I					
6	IVS VI	Companion Animal Health II		Research I	Vet. Pathology III		Epidemiology		Biostatistics		Economics for Veterinarians		Farm Animal Production and Health II			
7	IVS VII	Companion Animal Health III		Research II			Veterinary Public Health I			Aquaculture and Aquatic Animal Health		Farm Animal Production and Health III				
8	IVS VIII	Wild Animal Health and Management		Research III		Veterinary Public Health II		Veterinary Extension		Principles of Business Management		Equine Health and Management		Poultry Pathology and Health		
9	Companion and Wild Animal Clinics I								Farm Animal Clinics I							
10	Companion and Wild Animal Clinics II				Externship								Farm Animal Clinics II			

Externship includes two compulsory appointments in Dairy and Poultry Practice and two elective appointments in Companion Animal Practice, Zoo & Wild, Aquaculture, Equine, Feed Industry, Pharmaceutical Industry, Research, Veterinary Investigation Centre, Swine Practice, Farm Animal Practice, Dairy, or Poultry (Breeder and hatchery) Practice.

### 3.5 Outline of the BVSc Degree Programme

The following table depicts an outline of the courses offered in the BVSc degree program which amounts to 157 credits.

Abbreviations used in the table below: Year one Semester one (Y1S1), Year one Semester two (Y1S2), Year two Semester one (Y2S1), Year two Semester two (Y2S2), Year three Semester one (Y3S1), Year three Semester two (Y3S2), Year four Semester one (Y4S1), Year four Semester two (Y4S2), Year five Semester one (Y5S1), Year five Semester two (Y5S2).

Semester	Course Code	Course Descriptor	Credits
<b>Orientation</b>	PREVET 1	Intensive course in English	None
<b>Orientation</b>	PREVET 2	Information and Communication Technology	None
<b>Orientation</b>	PREVET 3	Introduction to University and Professional Life	None
<b>Y1S1</b>	VS1101	Veterinary Anatomy and Physiology I	6
<b>Y1S1</b>	VS1102	Biochemistry I	3
<b>Y1S1</b>	VS1103	Professional Studies I	2
<b>Y1S1</b>	VS1104	Animal Science I	2
<b>Y1S1</b>	VS1105	English I	2 (Non-GPA)
<b>Y1S1</b>	VS1106	Integrated Veterinary Sciences I	1
<b>Y1S1 End-Semester Examination</b>			
<b>Y1S2</b>	VS1207	Veterinary Anatomy and Physiology II	6
<b>Y1S2</b>	VS1208	Biochemistry II	3
<b>Y1S2</b>	VS1209	Professional Studies II	1
<b>Y1S2</b>	VS1210	Animal Science II	3
<b>Y1S2</b>	VS1211	English II	2 (Non-GPA)
<b>Y1S2</b>	VS1212	Integrated Veterinary Sciences II	1
<b>Y1S2 End-Semester Examination</b>			
<b>Y2S1</b>	VS2113	Veterinary Anatomy and Physiology III	3
<b>Y2S1</b>	VS2114	Veterinary Bacteriology and Mycology	3
<b>Y2S1</b>	VS2115	Immunology	2
<b>Y2S1</b>	VS2116	Animal Science III	4
<b>Y2S1</b>	VS2117	Introduction to Veterinary Clinical Practice	2
<b>Y2S1</b>	VS2118	Integrated Veterinary Sciences III	1
<b>Y2S1 End-Semester Examination</b>			

<b>Y2S2</b>	VS2219	Veterinary Pathology I	2
<b>Y2S2</b>	VS2220	Veterinary Parasitology I	2
<b>Y2S2</b>	VS2221	Veterinary Pharmacology and Toxicology I	1
<b>Y2S2</b>	VS2222	Veterinary Virology	2
<b>Y2S2</b>	VS2223	Animal Science IV	4
<b>Y2S2</b>	VS2224	Clinical Pathology and Diagnostics	3
<b>Y2S2</b>	VS2225	Integrated Veterinary Sciences IV	1
<b>Y2S2 End-Semester Examination</b>			
<b>Semester</b>	<b>Course Code</b>	<b>Course Descriptor</b>	<b>Credits</b>
<b>Y3S1</b>	VS3126	Veterinary Pathology II	2
<b>Y3S1</b>	VS3127	Veterinary Parasitology II	2
<b>Y3S1</b>	VS3128	Veterinary Pharmacology and Toxicology II	3
<b>Y3S1</b>	VS3129	Farm Animal Production and Health I	4
<b>Y3S1</b>	VS3130	Companion Animal Health I	4
<b>Y3S1</b>	VS3131	Integrated Veterinary Sciences V	1
<b>Y3S1 End-Semester Examination</b>			
<b>Y3S2</b>	VS3232	Veterinary Pathology III	2
<b>Y3S2</b>	VS3233	Biostatistics	2
<b>Y3S2</b>	VS3234	Epidemiology	2
<b>Y3S2</b>	VS3235	Farm Animal Production and Health II	3
<b>Y3S2</b>	VS3236	Companion Animal Health II	3
<b>Y3S2</b>	VS3237	Economics for Veterinarians	2
<b>Y3S2</b>	VS3238	Research Project I	1
<b>Y3S2</b>	VS3239	Integrated Veterinary Sciences VI	1
<b>Y3S2 End-Semester Examination</b>			
<b>Y4S1</b>	VS4140	Veterinary Public Health I	3
<b>Y4S1</b>	VS4141	Aquaculture and Aquatic Animal Health	3
<b>Y4S1</b>	VS4142	Farm Animal Production and Health III	3
<b>Y4S1</b>	VS4143	Companion Animal Health III	3
<b>Y4S1</b>	VS4144	Research Project II	3
<b>Y4S1</b>	VS4145	Integrated Veterinary Sciences VII	1
<b>Y4S1 End-Semester Examination</b>			

<b>Y4S2</b>	VS4246	Veterinary Public Health II	2
<b>Y4S2</b>	VS4247	Poultry Pathology and Health	2
<b>Y4S2</b>	VS4248	Equine Health and Management	2
<b>Y4S2</b>	VS4249	Wild Animal Health and Management	2
<b>Y4S2</b>	VS4250	Principles of Business Management	2
<b>Y4S2</b>	VS4251	Veterinary Extension	2
<b>Y4S2</b>	VS4252	Research Project III	2
<b>Y4S2</b>	VS4253	Integrated Veterinary Sciences VIII	1
<b>Y4S2 End-Semester Examination</b>			
<b>Y5S1</b>	VS5154	Farm Animal Clinics I	8
<b>Y5S1</b>	VS5155	Companion and Wild Animal Clinics I	8
<b>Y5S1 End-Semester Examination</b>			
<b>Y5S2</b>	VS5256	Farm Animal Clinics II	4
<b>Y5S2</b>	VS5257	Companion and Wild Animal Clinics II	4
<b>Y5S2</b>	VS5258	Externships	8
<b>Y5S2 End-Semester Examination</b>			

### 3.6 Course Descriptions

<b>Course Code</b> <b>Course Title</b> <b>No. of Credits</b> <b>Prerequisites</b> <b>Compulsory/ Optional</b>	PREVET I Intensive Course in English Non-credit None Compulsory
<b>Aim(s):</b> To enhance the general English language competency of the new entrants in order to successfully follow the BVSc degree program	
<b>Intended Learning Outcomes:</b> At the successful completion of the course students will be able to; <ol style="list-style-type: none"> <li>i) write at paragraph and short composition levels with accurate spelling and punctuation and to understand and use verb tenses, nouns/pronouns, and articles appropriately</li> <li>ii) demonstrate the ability to revise content and identify grammatical errors</li> <li>iii) demonstrate skills needed to participate in social conversations; listening and understanding others' viewpoints; articulating their own ideas and questions clearly; and situating their own ideas in relation to others' voices and ideas</li> <li>iv) develop skills to prepare, organize, and deliver oral presentations</li> <li>v) develop skill to read text, find specific information and understand the contents</li> </ol>	
<b>Time Allocation (Hours):</b> Lectures 60; Practical 24; Independent learning; 66	
<b>Course content/ Course description:</b> This course emphasizes the four skills of writing, speaking, listening and reading in order to improve linguistic and communicative competence, strengthen conveyance of meaning, build vocabulary, and develop grammar and writing skills. Students will engage in individual and group projects and structured role plays in order to increase the English language proficiency.	
<b>Assessment</b>	<b>Percentage Mark</b>
End of course	100

<b>Course Code</b>	PREVET II
<b>Course Title</b>	Information and Communication Technology
<b>No. of Credits</b>	Non-credit
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
<ul style="list-style-type: none"> <li>i) Provide knowledge and skills to operate a computer and use Microsoft Office package for writing, presentation, and data processing and management</li> <li>ii) Impart knowledge and skills essential for web browsing, effective information search, online communication and email</li> </ul>	
<b>Intended Learning Outcomes:</b> At the successful completion of the course students will be able to;	
<ul style="list-style-type: none"> <li>i) Understand basic concepts relating to ICT, computers, devices and software,</li> <li>ii) perform desktop management, file handling using Microsoft Windows,</li> <li>iii) use word processing applications to create everyday letters and documents,</li> <li>iv) understand the concepts of spreadsheets and use spreadsheets to produce accurate work outputs,</li> <li>v) use presentation software effectively,</li> <li>vi) understand the basic concepts and use databases,</li> <li>vii) understand the online security concepts, browse the internet and use email, and</li> <li>viii) conduct a literature search using different databases.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 16; Practical 48; Independent learning; 36	
<b>Course content/ Course description:</b>	
This course provides the information literacy required for the student to operate a computer, search databases, browse the internet and use the Microsoft Office package (Word, Excel, PowerPoint and Access) for academic and research work in the BVSc program.	
<b>Assessment</b>	<b>Percentage Mark</b>
End of course	100

<b>Course Code</b>	PREVET III
<b>Course Title</b>	Introduction to University and Professional Life
<b>Prerequisites</b>	None
<b>No. of Credits</b>	Non-credit
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> Orient the students to university education with a smooth transition from the secondary to tertiary education and stimulate to pursue a successful career in veterinary profession.	
<b>Intended Learning Outcomes:</b> At the successful completion of the course students will be able to; <ul style="list-style-type: none"> <li>i) acquire knowledge on university's policies, and procedures (bylaws) that impact the degree attainment,</li> <li>ii) understand civic engagement in Peradeniya and Kandy city and be aware of the relationship between the current social, political, and cultural aspects in the university,</li> <li>iii) use resources and facilities of the university and the faculty, and</li> <li>iv) understand the importance of time management, positive thinking, motivation and attitude development, personal development, management of emotions, carrier guidance, conflict resolution and effective study methods.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 32; Practical 40; Independent learning; 78	
<b>Course content/ Course description:</b> This course emphasizes the nature and value of university education in relationship to intellectual development, degree attainment, career success, and quality of life. There will be invited speeches by academics and non-academics, veterinarians and other professionals employed at public and private sectors.	
<b>Assessment</b>	<b>Percentage Mark</b>
End of course	100

<b>Course Code</b>	VS1101
<b>Course Title</b>	Veterinary Anatomy and Physiology I
<b>No. of Credits</b>	6
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
I. To impart knowledge on mammalian cell biology, basic tissues, and general embryology II. To impart knowledge on anatomy and physiology of the cardio-respiratory system and the axial skeleton of domestic animals.	
<b>Intended Learning Outcomes:</b>	
At the end of the course the student will be able to; <ol style="list-style-type: none"> <li>i) identify and describe cellular components and their functions,</li> <li>ii) describe and explain how genetic information is inherited, used and controlled in cells,</li> <li>iii) describe and recognize basic tissues,</li> <li>iv) describe the function of the central and autonomic nervous systems and the innervation of tissues,</li> <li>v) explain the functions of blood, clotting and erythropoiesis,</li> <li>vi) describe the embryological formation of the body, organs and fetal membranes,</li> <li>vii) describe and relate the anatomy of the axial and appendicular skeleton to quadrupedal locomotion,</li> <li>viii) evaluate normal and abnormal posture and gait of domestic animals,</li> <li>ix) demonstrate safe handling techniques for restraint of dogs, cattle and goats,</li> <li>x) describe the anatomy of the cardiovascular system, and relate the anatomy and physiology of cardiovascular system to each other,</li> <li>xi) perform a clinical examination of the components of the cardiovascular system in normal domestic animals,</li> <li>xii) describe the anatomy of the respiratory system, and relate the anatomy and physiology of respiratory system to each other,</li> <li>xiii) describe the mechanisms associated with ventilation, gas exchange and regulation of respiration,</li> <li>xiv) perform a clinical examination of the components of the respiratory system, determine and interpret lung volumes and capacities in normal domestic animals.</li> </ol>	
<b>Time Allocation (Hours):</b> Lectures 60; Practical 60; Independent learning 180	
<b>Course content/Course description:</b>	
Ultrastructure and function of the eukaryotic cell; microscopy and methods of study of cells and tissues; structure and function of connective tissue, epithelia, muscle tissue, nerve tissue, cartilage, bone and blood; general embryology: embryological formation of the body, organs and fetal membranes; function of fetal membranes; principles of biomechanics and the anatomy of axial and appendicular skeletons of domestic animals; development, anatomy and physiology of the cardiovascular and respiratory systems in domestic animals.	
<b>Recommended Texts:</b>	
a) Dyce, K.M., Sack, W.O. and Wensing, C.J.G. (2010). Textbook of Veterinary Anatomy (4 <sup>th</sup> Ed.). Saunders Elsevier Inc., St. Louis, Missouri, U.S.A. b) Eurell, J.A. and Frappier, B.L. (2006). Dellman's Textbook of Veterinary Histology (6 <sup>th</sup> Ed.). Blackwell Publishing Ltd., Ames, Iowa, U.S.A. c) McGeady, T.A., Quinn, P.J., Fitzpatrick, E.S., Ryan, M.T., Kilroy D. and Lonergan, P. (2016). Veterinary Embryology (2 <sup>nd</sup> Ed.). Blackwell Publishing Ltd., Oxford, U.K. d) Reece, W.O., Erickson, H.H., Goff, J.O. and Uemura, E.E. (2015). Dukes' Physiology of Domestic Animals (13 <sup>th</sup> Ed.). Wiley-Blackwell Publishers, Oxford, UK.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS1102
<b>Course Title</b>	Biochemistry I
<b>No. of Credits</b>	3
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To impart knowledge on the core principles and topics of Biochemistry (bioenergetics, enzyme catalysis, and metabolism of biomolecules) and their experimental basis	
<b>Intended Learning Outcomes:</b> At the successful completion of the course the student will be able to; i) identify and discuss the chemical nature of biological macromolecules and their functions, ii) explain the principles of bioenergetics and enzyme catalysis, iii) define and explain digestion and absorption of biomolecules in selected domestic animals, iv) explain the metabolism of dietary and endogenous carbohydrate, lipid and protein, v) implement experimental protocols, and adapt them to plan and perform simple experiments, and vi) contribute effectively to team presentation and reports.	
<b>Time Allocation (Hours):</b> Lectures 27; Tutorials 3; Practical 30; Independent learning 90	
<b>Course Content/Course description:</b> Classification; structure and function of carbohydrate, amino acids, proteins, lipids and nucleotides; enzyme kinetics; regulation of enzyme activity; introduction to the biochemistry laboratory practical activities; metabolism of biomolecules: digestion and absorption, bioenergetics and thermodynamics; metabolism of carbohydrates and gluconeogenesis; amino acid catabolism, transamination, deamination and, urea cycle; metabolism of fats and ketogenesis; classification, structure, synthesis, functions and degradation of lipoproteins; cholesterol metabolism; purine and pyrimidine synthesis, and degradation of purine and pyrimidine.	
<b>Recommended Texts:</b> i. Berg, J. M., Tymoczko, J. L. & Stryer, L. (2015). <i>Biochemistry</i> (8 <sup>th</sup> Ed.). WH Freeman, NY,USA. ii. Nelson, D. L. and Cox, M. M. (2012). <i>Lehninger Principles of Biochemistry</i> (6 <sup>th</sup> Ed.). WH Freeman, NY,USA. iii. Kaneko, J.J., Harvey J.W., and Bruss M.L. (2008). <i>Clinical Biochemistry of Domestic Animals</i> (6 <sup>th</sup> Ed.). Elsevier, Missouri. iv. Murray, R.K., Bender, D.A., Botham, K. M., Kennelly P.J., Rodwell, V.W. and Weil, P.A. (2015). <i>Harpers Illustrated Biochemistry</i> (30 <sup>th</sup> Ed.). McGraw-Hill Education, NY, USA.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS1103
<b>Course Title</b>	Professional Studies I
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To develop students' understanding of professional and personal aspects of being a veterinarian, including their obligations to themselves, colleagues, profession and the society.	
<b>Intended Learning Outcomes:</b> At the end of the course students will be able to; i) explain and display behavior that is consistent with their role as professional people, both in class and out-of- class, ii) apply the basic concepts of education to veterinary undergraduate studies, iii) apply key aspects of sociology for the understanding of personal and client behavior, iv) explain, in the context of a veterinary professional, the basic principles of psychology, sensation and perception (including cultural differences), human memory processes and human motives, v) explain the importance of, and adopt personal strategies to develop physical and mental health planning, and managing finances, vi) describe the role of veterinarian as a social worker and change agent, vii) display professional behavior befitting of a veterinarian, including ethical conduct, honesty and integrity as responsible members of the society and university's community, and viii) describe the socio-economic and educational status of rural small holder farmers in Sri Lanka and be able to effectively communicate and work with them as a leader to uplift their living standards in an eco-friendly manner.	
<b>Time Allocation (Hours):</b> Lectures 15; Field work 30; Clinicals (by observation) 20; Independent learning 35	
<b>Course content/Course description:</b> Introduction to the veterinary profession; role of veterinary profession; day-1 competencies of BVSc graduate; effective learning habits and time management; reflective practices; self-management, including stress, mindfulness, physical wellbeing and personal financial planning; principles of human behavior, including introductions to sociology and psychology; partnership between the student and the university, ethics, and expected conduct from the students and consequences of misconduct; outbound practical training at the Mahailuppallama sub-campus for a week-long residential and practical on-farm training focused around the principles and practices of animal production and handling, rural sociology and team building.	
<b>Recommended Texts:</b> Gray, C. and Moffett, J. (2013). Handbook of Veterinary Communication Skills (1 <sup>st</sup> Ed.). John Wiley & Sons, Chicester, UK.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	50
End-semester	50

<b>Course Code</b>	VS1104
<b>Course Title</b>	Animal Science I
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
<ul style="list-style-type: none"> <li>i) To make students understand salient features of livestock and allied industries in Sri Lanka.</li> <li>ii) To introduce principles of animal behavior, animal welfare, animal handling and restraining</li> </ul>	
<b>Intended Learning Outcomes:</b>	
At the end of the course, the student will;	
<ul style="list-style-type: none"> <li>v) describe the geographical, agro-ecological, demographical and socio-economic characteristics of Sri Lanka and the role of livestock industry in the economy of Sri Lanka,</li> <li>vi) be able to describe different livestock breeds, farming systems, management practices, feeds and feedstuffs of farm animals,</li> <li>vii) be able to demonstrate safe handling and restrain of animals,</li> <li>viii) be able to differentiate normal from abnormal behaviors in domestic animals,</li> <li>ix) be able to describe the tools, skills and techniques of safe handling of farm animals for examination and safely perform animal restraint and handling for common domestic species, and</li> <li>x) be able to explain and define parameters of animal welfare and perform welfare assessment.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 20; Demonstrations (Clinical) 5; Practical 10; Independent learning 65	
<b>Course Content/ Course Description:</b>	
Introduction to animal industries in Sri Lanka; general characteristics of livestock sector and its role in Sri Lankan economy; agro-ecological zones and livestock production systems; livestock breeds, breed characteristics and distribution; animal behavior, handling and restraint - Tinbergen's four questions (Ultimate and Proximate causes) of behavior; adaptive significance of a behavior trait in captive animals; normal behavior of domestic animals; abnormal behavior of domestic animals; domestic animal behavioral concepts in respect to handling and restrain; handling of fearful and anxious animals; tools and techniques of safe handling of animals; animal welfare -two schools of thought on animal welfare; ethics and animal welfare; parameters of animal welfare; development of animal welfare assessment protocols; animal welfare legislature in Sri Lanka; international animal welfare legislature and the role of OIE in maintaining adequate animal welfare; religious animal slaughter; euthanasia and culling; animal transport and welfare; use of animals in experimentation.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Appleby M. C., Mench J. A., Olsson I. A., &amp; Hughes B. A. (2001). <i>Animal Welfare</i> (2nd Ed.). CABI</li> <li>ii) Broom D. M. &amp; Fraser, A. F. (2015). <i>Domestic Animal Behaviour and Welfare</i> (5th Ed.). CABI</li> <li>iii) Houpt, K. A. (2011). <i>Domestic Animal Behavior for Veterinarians and Animal Scientists</i>. John Wiley &amp; Sons</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS1105
<b>Course Title</b>	English I
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory (non-GPA)
<b>Aim(s):</b> To introduce students to Academic English so that they will be able to cope with the change of the medium of instruction from Sinhala/Tamil to English	
<b>Intended Learning Outcomes:</b> By the end of the course, students will be able to: <ol style="list-style-type: none"> <li>i) construct grammatically accurate sentences using the active voice, passive voice, modal verbs, and transitional words/ phrases expressing the cause-effect relationship,</li> <li>ii) engage in free and formal writing processes,</li> <li>iii) apply reading comprehension skills/ strategies such as skimming, scanning, understanding internal cohesion, finding main ideas and supporting details and drawing conclusions, and extracting appropriate information from academic texts,</li> <li>iv) identify, understand and take notes of the key ideas in a lecture,</li> <li>v) use the English language effectively to communicate with their peers, including articulating ideas and opinions, providing explanations, and generating discussions, and</li> <li>vi) use general words and veterinary-specific terms appropriately.</li> </ol>	
<b>Time Allocation (Hours):</b> In-class assignments 30; Practical 30; Independent learning 40	
<b>Course Content/Course Description:</b> This course is designed to introduce students to Academic English, so that they will be able to cope with the shift towards English as a medium of instruction for their academic/ curricular subjects. The course will deal with grammatically correct use of verbs and will develop students' academic writing skills. It will introduce students to reading passages taken from a variety of media to develop their academic reading skills. The course will also lead students to listen or recorded academic lectures and other listening texts and respond to questions based on those texts. The course will enhance the speaking skills of the students through arrange of communicative activities. It will give students the opportunity to enrich their vocabulary (both general and veterinary-specific).	
<b>Recommended Texts:</b> <ol style="list-style-type: none"> <li>i) Donovan, P. (1978). <i>Basic English for Science</i>, Oxford University Press, Oxford.</li> <li>ii) Murphy, R. (1992). <i>Essential English Grammar</i>, Cambridge University Press, Cambridge.</li> <li>iii) Pearson, I. (1978). <i>English in Focus: English in Biological Science</i>, Oxford University Press, Oxford.</li> </ol>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	50
End-semester	50

<b>Course Code</b>	VS1106
<b>Course Title</b>	Integrated Veterinary Sciences I
<b>No. of Credits</b>	1
<b>Prerequisites</b>	None
<b>Compulsory/Optional</b>	Compulsory
<b>Aim(s):</b>	
To improve students' critical analytical and problem solving skills using a Problem-Based Learning (PBL) approach, and by doing so, to develop their (i) ability to integrate knowledge gained from different Y1S1 courses, and (ii) understanding of the relevance of Y1S1 courses to the BVSc degree program as a whole.	
<b>Intended Learning Outcomes:</b>	
At the end of the course, students will be able to;	
<ul style="list-style-type: none"> <li>i) synthesize and integrate material from concurrent subjects to evaluate provided scenarios and to create problem lists,</li> <li>ii) analyze and synthesize solutions to open-ended questions, complex problems and clinical scenarios,</li> <li>iii) display a range of professional skills that includes inter-personal skills, team/ collaborative work, communication skills, ICT skills and problem-solving skills,</li> <li>iv) display intellectual curiosity by finding, managing and applying information from a wide range of sources,</li> <li>v) display sound professional judgement, with consideration for appropriate ethical, moral and legal principles,</li> <li>vi) successfully participate in a problem-based learning (PBL) classroom,</li> <li>vii) develop soft skills (inter-personal skills, team/ collaborative work, communication skills, ICT skills, problem solving skills etc.), and</li> <li>viii) fine-tune their logical thinking and critical evaluation capabilities so as to study, understand, and analyze knowledge-based problems and to synthesize a suitable solution to solve the problem.</li> </ul>	
<b>Time Allocation (Hours):</b> In-class assignments 30; Independent learning 20	
<b>Course content/ Course description:</b>	
The Integrated Veterinary Sciences stem will use a PBL approach. Students will be presented with real-life scenarios/problems related to animal health/ production, for which they will have to integrate concurrent knowledge to develop a testable hypothesis of causation. Course teachers will facilitate students' comprehension of each case scenarios by making connections between course-material and additional information obtained through reading. Students will be expected to develop and practice interpersonal, communication and team working skills and to express appropriate professional behavior.	
<b>Recommended Texts:</b>	
Recommended review articles and electronic resources including videos relevant to the respective scenarios/ problems will be prescribed during the delivery of the course.	
<b>Assessment:</b>	<b>Percentage Mark</b>
In-course:	75
End-semester	25

<b>Course Code</b>	VS1207
<b>Course Title</b>	Veterinary Anatomy and Physiology II
<b>No. of Credits</b>	6
<b>Prerequisites</b>	VS1101
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To impart knowledge on anatomy and physiology of endocrine, digestive, urinary and locomotor systems of domestic animals.	
<b>Intended Learning Outcomes:</b> At the end of the course the student will be able to;	
<ul style="list-style-type: none"> <li>i) describe and recognize the gross and radiographic anatomy of the skeleton, muscles, nerves and vasculature of the forelimb and the hind limb including species variations,</li> <li>ii) relate the anatomy of the limbs to mechanisms of locomotion, normal and abnormal gait and posture including species variations,</li> <li>iii) describe and recognize the topography, gross and microscopic structure of endocrine organs and relate these to function,</li> <li>iv) explain hormonal regulation in mammals in normal homeostatic states, including the synthesis and breakdown of hormones,</li> <li>v) relate hormone dysfunction to disease,</li> <li>vi) describe and recognize the topography, gross anatomy, radiographic anatomy and histology of the gastrointestinal tract, and its associated organs and peritoneal attachments in domestic animals,</li> <li>vii) explain the function of the gastrointestinal tract and relate this to its anatomy,</li> <li>viii) describe the structure, innervation and vasculature of the abdominal wall,</li> <li>ix) describe the embryological development of the mammalian digestive and urinary systems and explain how common malformations may occur,</li> <li>x) describe and recognize the gross and radiographic anatomy, and histological structure, of the components of the urinary system; and be able to describe them with relevance to function, and</li> <li>xi) perform and interpret tests on physicochemical parameters of urine.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 45; In-class assignments 30; Practical 60; Independent learning 165	
<b>Course content/Course description:</b> Locomotion and biomechanics: bones, muscles, nerves and blood vessels of the fore limb and hind limb in domestic animal; the role of the limbs in locomotion; clinical applications of limb anatomy; development, structure, and function of endocrine organs; hormone functions and relevance of hormone dysfunction to disease; development, topography, gross anatomy and histology of the gastrointestinal tract and associated organs and their functions in the domestic animals; anatomy of the abdominal wall, its innervations and vasculature; development, gross and microscopic anatomy and functions of the urinary system.	
<b>Recommended Texts:</b> <ol style="list-style-type: none"> <li>1. Dyce, K.M., Sack, W.O and Wensing, C.J.G. (2010). Textbook of Veterinary Anatomy (4th Ed.). Saunders Elsevier Inc., St. Louis, Missouri, U.S.A.</li> <li>2. Eurell, J.A. and Frappier, B.L. (2006). Dellman's Textbook of Veterinary Histology (6th Ed.). Blackwell Publishing Ltd., Ames, Iowa, U.S.A.</li> <li>3. McGeady, T.A., Quinn, P.J., Fitzpatrick, E.S., Ryan, M.T., Kilroy, D. and Lonergan, P. (2016). Veterinary Embryology (2nd Edition). Blackwell Publishing Ltd., Oxford, U.K.</li> <li>4. Reece, W.O., Erickson, H.H., Goff, J.O. and Uemura, E.E. (2015). Dukes' Physiology of Domestic Animals (13th Ed.). Wiley-Blackwell Publishers, Oxford, UK.</li> </ol>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS1208
<b>Course Title</b>	Biochemistry II
<b>No. of Credits</b>	3
<b>Prerequisites</b>	VS1102
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To impart knowledge on biochemistry of blood elements, ruminant metabolism, biology of lactation, clinical biochemistry and molecular biology, and provide hands on experience on working in a laboratory environment	
<b>Intended Learning Outcomes:</b> At the successful completion of the course the student will be able to; i) describe the biochemistry of blood elements, ii) describe the dietary requirements and digestion in ruminants, iii) describe the milk composition and synthesis in various animal species, iv) describe the key elements of clinical diagnosis, including enzymes in clinical diagnosis metabolic disorders, acute phase proteins and urinalysis in dog, cat, cattle, goat and sheep, v) explain the processes of DNA replication, transcription and translation processes, and vi) use standard operating protocols to perform simple biochemical experiments to obtain reproducible values and contribute effectively to team presentation.	
<b>Time Allocation (Hours):</b> Lectures 27; Tutorials 3; Practical 30; Independent learning 90	
<b>Course content/ Course description:</b> Structure and biochemistry of RBC; structure and function of blood proteins; bile pigments and jaundice; composition, biosynthesis and secretion of milk; lactose intolerance and milk allergy; rumen microorganisms and fermentation; digestion of nutrients in the ruminant; NPN metabolism in rumen; clinical biochemistry: organ-specific enzymes, urine and acute-phase proteins in disease diagnosis; Biochemistry of DNA: replication, transcription, protein synthesis, mutations, and basic molecular biology techniques.	
<b>Recommended Texts:</b> i) Berg, J. M., Tymoczko, J. L. and Stryer, L. (2015). <i>Biochemistry</i> (8 <sup>th</sup> Ed.). WH Freeman, NY, USA. ii) Nelson, D. L. and Cox, M. M. (2012). <i>Lehninger Principles of Biochemistry</i> (6 <sup>th</sup> Ed.). WH Freeman, NY, USA. iii) Kaneko, J.J., Harvey J.W., and Bruss M.L. (2008). <i>Clinical Biochemistry of Domestic Animals</i> (6 <sup>th</sup> Ed.). Elsevier, Missouri. iv) Murray, R.K., Bender, D.A., Botham, K, M., Kennelly P.J., Rodwell, V.W. and Weil, P.A. (2015). <i>Harpers Illustrated Biochemistry</i> (30 <sup>th</sup> Ed.). McGraw-Hill Education, NY, USA.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS1209
<b>Course Title</b>	Professional Studies II
<b>No. of Credits</b>	1
<b>Prerequisites</b>	VS1103
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To develop communication skills required by a veterinary professional.	
<b>Intended Learning Outcomes:</b> At the end of the course students will be able to;	
<ul style="list-style-type: none"> <li>i) describe the principles of verbal and nonverbal communication, and listening and apply these in interpersonal, small group, public, and organizational contexts,</li> <li>ii) explain the value of human- animal bond, explain various cultural and societal attitudes towards animals and the implication of such attitudes on human-animal relationships and impact of companion animals on human health,</li> <li>iii) apply the Calgary-Cambridge guide to obtain a complete, organized, patient-centered history while building a rapport with the client, and</li> <li>iv) demonstrate communication skills to deal with situations such as grief and anger, conflict resolution, managing social media across multiple cultures.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 5; In-class assignments 20; Independent learning 25	
<b>Course content/Course description:</b> An introduction to communication; effective writing skills; effective presentation skills; human animal bond; four core skills of communication and Calgary-Cambridge guide; dealing with grief and anger and communicating mistakes; conflict/ dispute resolution; managing social media and media etiquette; and intercultural communication.	
<b>Recommended Texts (if any):</b> <ul style="list-style-type: none"> <li>i) Gray, C. and Moffett, J. (2013). Handbook of Veterinary Communication Skills (1<sup>st</sup> Ed.). John Wiley &amp; Sons, Chicester, UK.</li> <li>ii) Hill, P., Warman, S. and Shawcross, G. (2011). One Hundred Top Consultations in Small Animal General Practice (1<sup>st</sup> Ed.). Wiley-Blackwell, Chicester, UK.</li> <li>iii) Powell, L., Rozanski, E.A. and Rush, J.E. (2010). Small Animal Emergency and Critical Care: Case Studies in Client Communication, Morbidity and Mortality (1<sup>st</sup> Ed.). Wiley-Blackwell, Ames, Iowa.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	60
End-semester	40

<b>Course Code</b>	VS1210
<b>Course Title</b>	Animal Science II
<b>No. of Credits</b>	3
<b>Prerequisites</b>	VS1104
<b>Compulsory/ Optional</b>	Compulsory
<b>Aims:</b>	
<ul style="list-style-type: none"> <li>i) To make students understand fundamentals of genetics, inheritance, national animal breeding policy, and applications of genetics in livestock breeding.</li> <li>ii) To impart knowledge on feed resources, feed additives, supplements, feed evaluation and processing together with hands-on experience in a nutrition laboratory environment.</li> </ul>	
<b>Intended Learning Outcomes:</b> At the end of the course the students will be able to;	
<ul style="list-style-type: none"> <li>i) explain Mendalian Laws and apply these theories in veterinary practice and apply the Hardy- Weinburg theory to calculate the changes in gene/ genotype frequencies,</li> <li>ii) explain the concepts of inbreeding and calculation of inbreeding coefficients, estimating breeding value and its application for selecting animals, the principles of national animal breeding policy recommendations and principles of crossbreeding programs,</li> <li>iii) describe the principles of quantitative genetics in selecting animals for economically important traits,</li> <li>iv) describe the principles of molecular techniques used for animal selection purposes,</li> <li>v) define common terminology used in animal nutrition and be able to explain standard classifications, chemical composition and nutritive values of feed stuff,</li> <li>vi) describe different parameters used for feed evaluation and demonstrate some methods used for the feed evaluation,</li> <li>vii) describe the issues and limitations of different feed ingredients with hands on experience on identification of different feed ingredients,</li> <li>viii) explain and describe the safety of different raw materials, pasture and fodder management systems and forage conservation methods and processed animal feeds, and</li> <li>ix) define and classify feed additives, micro and macro minerals, water- and fat-soluble vitamins and their functions, deficiencies, toxicities and dietary sources</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 30; Tutorials 4; Practical 18; Field work 6; Independent learning 92	
<b>Course Content/Course description:</b> This course consists of three modules:	
<b>Module I:</b> Fundamental Genetics; <b>Module II:</b> Applied Genetics and Animal Breeding; <b>Module III:</b> Principles of Animal Nutrition.	
<b>Module I and II:</b> Fundamentals of genetics, applied genetics and animal breeding, national breeding policy; recent trends in animal selection using molecular genetic techniques.	
<b>Module III:</b> Principles of Animal Nutrition - Classification and evaluation of feeds; origin and characteristics of forages and concentrates; micronutrients (vitamins and minerals): sources, deficiencies, imbalances and supplements; feed additives, feed formulation and assess the safety of animal feed processing in commercial feed mills; identification and selection of feed ingredients.	
<b>Recommended Textbooks:</b>	
<ul style="list-style-type: none"> <li>i) Falconer, D.S. &amp; Mackay, T.F.C. (1996). Introduction to Quantitative Genetics (4<sup>th</sup> Ed). Longman Group Ltd., London.</li> <li>ii) Simm, G. (1998). Genetic Improvement of Cattle and Sheep. Scottish Agricultural College, Edinburgh, UK.</li> <li>iii) McDonald, P. (2010). Animal Nutrition (7<sup>th</sup> Ed). Benjamin/Cummings Publishing Company, Inc., California.</li> </ul>	
<b>Assessment</b>	<b>Percentage of mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS1211
<b>Course Title</b>	English II
<b>No. of Credits</b>	2
<b>Prerequisites</b>	VS1105
<b>Compulsory/ Optional</b>	Compulsory (non-GPA)
<b>Aim(s):</b> To enable students to further develop their English language skills, so that they will be able to cope with the academic demands of the BVSc Study Program	
<b>Intended Learning Outcomes:</b> By the end of the course, students will be able to: <ul style="list-style-type: none"> <li>i) recognize and correctly use transitional words/phrases, comparatives and superlatives and conditionals,</li> <li>ii) write formal prose, including reports and a curriculum vitae, using coherent paragraphs,</li> <li>iii) read, summarize, and paraphrase complex academic texts; synthesize information in complex academic texts,</li> <li>iv) listen to an academic lecture, understand its content, and take down notes based on it,</li> <li>v) understand and interpret attitudes, opinions, and stance of most speakers in a discussion,</li> <li>vi) deliver effective speeches/ presentations, handle questions/ suggestions/ comments, etc. related to their presentations, develop confidence when speaking before a large group, and</li> <li>vii) contribute positively to discussions and debates in an academic context.</li> </ul>	
<b>Time Allocation (Hours):</b> In-class assignments 30; Practical 30; Independent learning 40	
<b>Course Content/Course Description:</b> This course is designed to enable students to further develop their English language skills, so that they will be able to cope with the academic demands of the BVSc Study Program. The course will deal with transitional words/ phrases, comparatives and superlatives, and conditionals. The course will enable students to refine their reading comprehension skills/ strategies such as inferring, summarizing, and paraphrasing. The course will also enable students to grapple with academic listening texts and provide them with note-taking strategies. Furthermore, the course will contribute to develop the speaking skills of the students as they will be required to deliver prepared speeches, impromptu speeches, and presentations.	
<b>Recommended Texts:</b> <ul style="list-style-type: none"> <li>i) Murphy, R. (1992). <i>Essential English Grammar</i>. Cambridge University Press, Cambridge.</li> <li>ii) <a href="http://www.monash.edu.au/lls/llonline/writing/science/paragraphs/index.xml">http://www.monash.edu.au/lls/llonline/writing/science/paragraphs/index.xml</a></li> <li>iii) <a href="https://www2.vet.cornell.edu/education/doctor-veterinary-medicine/current-students/career-services/resumes-cvs-cover-letters/cv">https://www2.vet.cornell.edu/education/doctor-veterinary-medicine/current-students/career-services/resumes-cvs-cover-letters/cv</a></li> <li>iv) <a href="http://www2.le.ac.uk/offices/ld/resources/presentations/delivering-presentation">http://www2.le.ac.uk/offices/ld/resources/presentations/delivering-presentation</a></li> <li>v) <a href="http://www.toastmasters.org/~media/9C6BB265EB73487798BB60EA2468A8B5.ashx">http://www.toastmasters.org/~media/9C6BB265EB73487798BB60EA2468A8B5.ashx</a></li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	50
End-semester	50

<b>Course Code</b>	VS1212
<b>Course Title</b>	Integrated Veterinary Sciences II
<b>No. of Credits</b>	1
<b>Prerequisites</b>	VS1106
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To further improve students' critical analytical and problem solving skills using a Problem-Based Learning (PBL) approach, and by doing so, to (i) develop their ability to integrate knowledge gained from different Y1S1 and Y2S2 courses, and (ii) develop their understanding of the relevance of Y1S2 courses to the BVSc degree program as a whole.	
<b>Intended Learning Outcomes:</b> At the end of the course, students will be able to; <ul style="list-style-type: none"> <li>i) demonstrate progression of critical thinking skills from VS1106,</li> <li>ii) synthesize and integrate material from previous and concurrent subjects to critically evaluate provided scenarios,</li> <li>iii) analyze and synthesize solutions to open-ended questions, complex problems and clinical scenarios,</li> <li>iv) display a range of professional skills that includes inter-personal skills, team/ collaborative work, communication skills, ICT skills and problem-solving skills,</li> <li>v) display Intellectual curiosity by finding, managing and applying information from a wide range of sources, and</li> <li>vi) display sound professional judgement, with consideration for appropriate ethical, moral and legal principles.</li> </ul>	
<b>Time Allocation (Hours):</b> In-class assignments 30; Independent learning 20	
<b>Course content/ Course description:</b> The Integrated Veterinary Sciences stem will use a student-centered, PBL approach. Students will be presented with real-life scenarios/ problems related to animal health/ production, for which they will have to integrate concurrent knowledge to develop a testable hypothesis of causation. Course teachers will facilitate students' comprehension of each case scenarios by making connections between course-material and additional information obtained through reading. Students will be expected to develop and practice interpersonal, communication and team working skills and to express appropriate professional behavior.	
<b>Recommended Texts:</b> Recommended review articles and electronic resources including videos relevant to the respective scenarios/ problems will be prescribed during the delivery of the course.	
<b>Assessment:</b>	<b>Percentage Mark</b>
In-course:	75
End-semester	25

<b>Course Code</b>	VS2113
<b>Course Title</b>	Veterinary Anatomy and Physiology III
<b>No. of Credits</b>	3
<b>Prerequisites</b>	VS1207
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To impart knowledge on anatomy and physiology of reproductive, nervous (including sensory organs), and integumentary systems of domestic animals	
<b>Intended Learning Outcomes:</b> At the end of the course the student will be able to;	
<ul style="list-style-type: none"> <li>i) describe and recognize the topography, gross anatomy and histology of the male and female reproductive systems and of the mammary gland and relate these to their function,</li> <li>ii) describe the embryological development of the reproductive system and explain how common malformations occur,</li> <li>iii) describe the physiological mechanisms of male and female reproduction, fertilization and pregnancy, parturition and the postpartum period including oestrus and mating behavior,</li> <li>iv) explain the process and physiological control of lactogenesis and lactation,</li> <li>v) describe and identify the gross and histological anatomy of the integument and relate these to its functions,</li> <li>vi) describe the anatomy and physiology of the sensory organs and associated structures (eye and ear),</li> <li>vii) describe and identify organization, structure and function of the mammalian central nervous system, including the meninges and cerebrospinal fluid,</li> <li>viii) describe the development of the mammalian nervous system and relate this to common malformations,</li> <li>ix) explain the neural pathways associated with motor function and senses of smell, vision and hearing &amp;</li> <li>x) relate the major reflex pathways to neurological examination in the domestic animals.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 30; Practical 30; Independent learning 90	
<b>Course content/Course description:</b> Development, topography, gross and microscopic anatomy of the male and female reproductive systems of domestic animals in relation to their function; hormonal regulation of reproduction and reproductive behaviour in domestic animals; development, gross and microscopic anatomy of the integument and mammary gland; lactogenesis and lactation and their hormonal control; development, gross and functional anatomy of the nervous system including reflex pathways and their relevance in neurological examination; meninges; formation, circulation and collection of cerebrospinal fluid; anatomy and physiology of the eye and ear.	
<b>Recommended Texts:</b>	
<ol style="list-style-type: none"> <li>1. De Lahunta, A., Glass, E.N. &amp; Kent, M. (2014). Veterinary Neuroanatomy and Clinical Neurology (4th Ed.). Saunders Elsevier Inc., St. Louis, Missouri, U.S.A.</li> <li>2. Dyce, K.M., Sack, W.O. &amp; Wensing, C.J.G. (2010). Textbook of Veterinary Anatomy (4th Ed.). Saunders Elsevier Inc., St. Louis, Missouri, U.S.A.</li> <li>3. Eurell, J.A. &amp; Frappier, B.L. (2006). Dellman's Textbook of Veterinary Histology (6th Ed.). Blackwell Publishing Ltd., Ames, Iowa, U.S.A.</li> <li>4. McGeady, T.A., Quinn, P.J., Fitzpatrick, E.S., Ryan, M.T., Kilroy, D. &amp; Lonergan, P. (2016). Veterinary Embryology (2nd Edition). Blackwell Publishing Ltd., Oxford, U.K.</li> <li>5. Reece, W.O., Erickson, H.H. Goff, J.O. &amp; Uemura, E.E. (2015). Dukes' Physiology of Domestic Animals(13th Ed.). Wiley-Blackwell Publishers, Oxford, UK.</li> </ol>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS2114
<b>Course Title</b>	Veterinary Bacteriology and Mycology
<b>No. of Credits</b>	3
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To provide knowledge on common bacterial and fungal diseases of veterinary and zoonotic importance including their transmission, pathogenesis, diagnosis, treatment, control, eradication, and where applicable, outbreak control procedures.	
<b>Intended Learning Outcomes:</b> At the successful completion of the course the student will able to; i) demonstrate routine biosafety and personal safety protocols in a microbiological laboratory, and perform basic sterilization techniques, ii) describe the morphology and growth characteristics of pathogenic bacteria and fungi and apply that knowledge to compare and contrast the mechanisms of virulence in major groups of pathogens, iii) predict the course of an infection based on the principles of pathogenesis and evaluate the epizootic and zoonotic risk, iv) demonstrate the standard collection and dispatch procedures of samples for microbiology and perform standard laboratory tests for diagnosing major groups of pathogens, v) explain the requirements of national and international (OIE) disease reporting system, vi) choose appropriate antimicrobial agent/ s against major classes of pathogens and recommend best practices to prevent the development of antimicrobial resistance, and vii) develop strategies to control, treat and eradicate a disease outbreak.	
<b>Time Allocation (Hours):</b> Lectures 25; Tutorials 5; In-class assignments 10; Practical 20; Independent learning 90	
<b>Course content/ Course description:</b> Structure, growth, reproduction and mechanisms of virulence of pathogenic bacteria and fungi; major pathogenic Gram positive and Gram positive bacteria, and fungi; pathogenesis of diseases caused by these organisms; general features of fungal diseases; requirements of international disease reporting systems; prudent use of antimicrobials; standard laboratory methods for diagnosing these organisms; control, treatment and eradication of the diseases caused by major groups of pathogenic bacteria and fungi; biosafety and personal safety protocols and sterilization techniques.	
<b>Recommended Texts:</b> 1. Quinn, P. J., Markey, B. K., Leonard, F. C., Hartigan, P., Fanning, S. & K E. S. FitzPatric, (2011) Veterinary Microbiology and Microbial Disease (2 <sup>nd</sup> Ed.), Wiley-Blackwell 2. Markey, B., Leonard, F., Archambault, M., Cullinane, A. & D. Maguire (2011) Clinical Veterinary Microbiology (2 <sup>nd</sup> Ed.), Mosby 3. Merck Veterinary Manual, available at: <a href="http://www.merckvetmanual.com/mvm/index.html">http://www.merckvetmanual.com/mvm/index.html</a>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS2115
<b>Course Title</b>	Immunology
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To provide a broad understanding of the immune system including innate and adaptive immune responses, immune-mediated disorders and fundamentals of vaccinology.	
<b>Intended Learning Outcomes:</b> At the end of the course the students will be able to;	
<ul style="list-style-type: none"> <li>i) describe and distinguish the structure and function of the various components of the innate and specific immune system,</li> <li>ii) compare and contrast the structure and functions of the immune systems among mammals, avian and fish,</li> <li>iii) explain the immune effector mechanisms against common pathogens based on their biology in the host,</li> <li>iv) describe the general strategies adopted by the pathogens to evade the host's immune responses,</li> <li>v) describe the advantages and disadvantages of different immunodiagnostic techniques employed in veterinary practice and interpret the qualitative and quantitative (numerical) data obtained from the immune diagnostic tests,</li> <li>vi) explain immune-pathological mechanisms of hypersensitivity reactions, autoimmunity and immune deficiency and discuss their clinical consequences,</li> <li>vii) appraise the role of different types of vaccines and vaccination strategies to control diseases of livestock, poultry, companion animals and aquatic animals at individual, and herd/flock/farm basis, and</li> <li>viii) explain the importance of monitoring vaccination programs and the significance of achieving herd immunity in the prevention and control of animal diseases.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 26; Tutorials 2; Practical 4; Independent learning 68	
<b>Course content/ Course description:</b> This course consists of four modules: <b>Module I: General immunology-</b> structure of the immune system; innate immunity; specific immunity; immunity in poultry and fish. <b>Module II: Immunodiagnosis-</b> immunodiagnostic techniques; principles, properties, advantages and drawbacks of common immunodiagnostic techniques; interpretation of the results of immunodiagnostic tests. <b>Module III: Immunity to infection-</b> immune effector mechanisms against pathogens; strategies adopted by pathogens to evade the host's immune responses; immune mediated disorders. <b>Module IV: Vaccines;</b> vaccination strategies adopted for domestic animals, poultry and fish; monitoring of vaccination programs; vaccination failure and herd immunity.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>I. Tizard, I.R. (2013). Veterinary Immunology (9<sup>th</sup> Ed). Elsevier, Missouri, USA.</li> <li>II. Day, M.J. &amp; Schultz, R.D. (2012). Veterinary Immunology – Principles and Practice. Manson Publishing, London.</li> <li>III. Callahan, G.N. &amp; Yates, R.M. (2014). Basic Veterinary Immunology. University Press of Colorado, Colorado, USA.</li> <li>IV. Day, M. (2012) Clinical Immunology of Dog and Cat. (2<sup>nd</sup> Ed). Manson Publishing, London.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS2116
<b>Course Title</b>	Animal Science III
<b>No. of Credits</b>	4
<b>Prerequisites</b>	VS1210
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
<ul style="list-style-type: none"> <li>i) To provide training on management of dairy cattle, buffalo, sheep and goats</li> <li>ii) Enable students to evaluate a farm; and to teach the principles of providing advice to a farmer.</li> <li>iii) To impart knowledge on feed formulation for different growth/production stages of ruminants.</li> </ul>	
<b>Intended Learning Outcomes:</b> At the end of the course, students will be able to;	
<ul style="list-style-type: none"> <li>i) discuss the livestock industries of Sri Lanka including their contribution to the national and rural economies,</li> <li>ii) describe the major farming systems of Sri Lanka,</li> <li>iii) describe management and healthcare of cattle, buffaloes, sheep and goats,</li> <li>iv) describe characteristics, major uses, and functions of local and imported cattle, goat and sheep breeds in Sri Lanka,</li> <li>v) assess the production status of farm animals and advise on corrective measures,</li> <li>vi) describe milk collection and distribution network in Sri Lanka,</li> <li>vii) identify feedstuffs available in Sri Lanka,</li> <li>viii) calculate the nutrient requirements at various stages of production and formulate a ration, and</li> <li>ix) explain practical feeding of ruminants under different agro-ecological zones using locally available feed stuff.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 42; Tutorials 3; Practical 10; Field Work 30; Independent learning 115	
<b>Course content/ Course description:</b>	
Current status of the Sri Lankan livestock industry; importance of livestock products in feeding the local population; role of the veterinarian in the livestock industry; different farming systems that exist in Sri Lanka; management of cattle, buffaloes, sheep and goats; current best practices for managing calves, heifers, parturient cows, lactating cows, dry cows, transition cows, sheep and goats including modern concepts of herd management. Principles of ruminant nutrition and digestion, practical feeding; basic feed formulation; feed conservation.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>I. Moran, J. (2002). Calf Rearing - A Practical Guide. Collingwood, Landlinks Press.</li> <li>II. Moran, J. (2005). Tropical Dairy Farming - Feeding Management for Small Holder Dairy Farmers in the Humid Tropics. Collingwood, Landlinks Press.</li> </ul>	
<b>Assessment:</b>	<b>Percentage Mark</b>
In-course:	40
End-semester	60

<b>Course Code</b>	VS2117
<b>Course Title</b>	Introduction to Veterinary Clinical Practice
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory course
<b>Aim(s):</b>	
<p>i) To familiarize students with the management, functions and practices of the Companion Animal Veterinary Teaching Hospital (CA/ VTH), Farm Animal Veterinary Teaching Hospital (FA/ VTH) and Veterinary Teaching Farm (VTF).</p> <p>ii) To develop students' skills of general clinical examination, principles of anesthesia and general surgical methods in companion and farm animals.</p>	
<b>Intended Learning Outcomes:</b>	
At the successful completion of the course the student will able to;	
<p>i) work in the CA/ VTH, FA/ VTH and VTF under the supervision of veterinary clinical staff while adhering to standard operational procedures, proper etiquette and safety procedures,</p> <p>ii) perform general clinical examinations on companion and farm animals under the supervision of clinical staff,</p> <p>iii) explain the basic surgical and anesthetic and analgesic procedures, and</p> <p>iv) identify the general surgical instruments and different suture materials and use such instruments and material on animals under the supervision of veterinary clinical staff.</p>	
<b>Time Allocation (Hours):</b> Lectures 22; Demonstrations (Clinical) 6; Clinical work 6; Independent learning 66	
<b>Course content/ Course description:</b>	
This course is organized as the starting point in veterinary clinical training for veterinary undergraduates, which starts with a guided tour and introduction to units of the hospital/ ambulatory service, hospital records and staff. Contents includes clinical examination: explanation, performance and basic interpretation of clinical examination of companion animals, cattle and horses; terminology, key equipment and instruments; recognizing an emergency patient; handling and restraint of dogs, cats, cattle and horses; surgery and anaesthesia: general principles of operative surgery and anaesthesia, including terminology, evaluation of the patient and key equipment/ instruments; basic techniques of surgery and anaesthesia; management of the surgical patient until anesthetic recovery and discharge from the clinic.	
<b>Recommended Texts:</b>	
<p>I. Jackson, P. &amp; Cockcroft, P. (2008). <i>Clinical examination of farm animals</i>. John Wiley &amp; Sons.</p> <p>II. Platt, S. R. &amp; Olby, N. J. (2014). <i>BSAVA manual of canine and feline neurology (4<sup>th</sup> Ed.)</i>, British Small Animal Veterinary Association.</p> <p>III. Chitty, J. &amp; Lierz, M. (2008). <i>BSAVA manual of raptors, pigeons and passerine birds</i>. British Small Animal Veterinary Association.</p>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS2118
<b>Course Title</b>	Integrated Veterinary Sciences III
<b>No. of Credits</b>	1
<b>Prerequisites</b>	VS1212
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To further improve students' critical analytical and problem solving skills using a Problem-Based Learning (PBL) approach, and by doing so, (i) to develop their ability to integrate knowledge gained from different courses learned to-date, and (ii) to develop their understanding of the relevance of Y2S1 courses in the context of the BVSc degree program	
<b>Intended Learning Outcomes:</b> At the end of the course, students will be able to; <ul style="list-style-type: none"> <li>i) demonstrate progression of critical thinking skills from VS1212,</li> <li>ii) synthesize and integrate material from previous and concurrent subjects to critically evaluate provided scenarios,</li> <li>iii) analyze and synthesize solutions to open-ended questions, complex problems and clinical scenarios,</li> <li>iv) display a range of professional skills that includes inter-personal skills, team/ collaborative work, communication skills, ICT skills and problem-solving skills,</li> <li>v) display Intellectual curiosity by finding, managing and applying information from a wide range of sources, and</li> <li>vi) display sound professional judgment, with consideration for appropriate ethical, moral and legal principles.</li> </ul>	
<b>Time Allocation (Hours):</b> In-class assignments 30; Independent learning 20	
<b>Course content/ Course description:</b> The Integrated Veterinary Sciences stem will use a student-centered, PBL approach. Students will be presented with health and/ or management-related problems that will require them to integrate topics covered to-date, with reference to anatomy, physiology, biochemistry, pathology, nutrition and animal science, to understand the etiology and development of the given problem and to come up with possible solutions. Course teachers will facilitate students' comprehension of each case scenarios by making connections between course-material and additional information obtained through reading. Students will be expected to develop and practice interpersonal, communication and team working skills and to express appropriate professional behaviour.	
<b>Recommended Texts:</b> Recommended review articles and electronic resources including videos relevant to the respective scenario/ problem will be prescribed during the delivery of the course	
<b>Assessment:</b>	<b>Percentage Mark</b>
In-course:	75
End-semester	25

<b>Course Code</b>	VS2219
<b>Course Title</b>	Veterinary Pathology I
<b>No. of Credits</b>	2
<b>Prerequisites</b>	VS2113
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To make students understand principles of general pathology.	
<b>Intended Learning Outcomes:</b> At the successful completion of the course, students will be able to;	
<ul style="list-style-type: none"> <li>i) explain the application of veterinary pathology and terminology used in pathology,</li> <li>ii) describe and demonstrate different laboratory techniques used in pathology,</li> <li>iii) categorize different types of injurious agents, describe and identify various changes occur at organelle, cellular and tissue level as responses,</li> <li>iv) identify and describe the lesions associated with inflammation and circulatory disturbances,</li> <li>v) describe and identify lesions associated with disorders of growth and various types of neoplasia based on their behavior,</li> <li>vi) perform a necropsy with confidence, sample collection, proper dispatch, record and report the findings using terminology in pathology, and</li> <li>vii) describe pathogenesis due to infectious agents.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 20; In-class assignments 10; Practical 10; Independent learning 60	
<b>Course content/Course description:</b> This course consists of three modules <b>Module I: Introduction to pathology</b> - Terminology, approaches, molecular techniques and field techniques; cellular injury; types of degeneration and necrosis, pigmentation; vascular abnormalities including haemorrhage, hyperaemia, congestion and oedema; susceptibility and resistance to disease; mechanism of damage to the host, tissue tropism of pathogens, and persistence of infection. <b>Module II: Inflammation</b> -Classification, signs, cellular events and chemical mediators of inflammation; humoral amplification system; tissue regeneration and healing. <b>Module III: Disorders of cell growth</b> - anomalies and malformations; neoplasia.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Slauson, D. O. &amp; Cooper, B. J. (2001). Mechanisms of Disease: A Textbook of Comparative General Pathology (3<sup>rd</sup> Ed.). Mosby.</li> <li>ii) Thomson, R. G. (2000). General Veterinary Pathology (3<sup>rd</sup> Ed). W B Saunders Co.</li> <li>iii) Zachary, J. F. &amp; McGavin, M. D. (2011). Pathologic Basis of Veterinary Diseases (5<sup>th</sup> Ed). Mosby.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS2220
<b>Course Title</b>	Veterinary Parasitology I
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To provide knowledge on common nematode and cestode infections of veterinary and zoonotic importance including their transmission, pathogenesis, diagnosis, treatment, control, and where applicable, outbreak control procedures.	
<b>Intended Learning Outcomes:</b> At the end of the course the students will be able to; i) explain the life cycle, mode of transmission, pathogenesis and clinical manifestation of common nematode and cestode infections of veterinary importance, ii) collect appropriate samples from sick, dead and apparently healthy, animals and perform suitable laboratory techniques to diagnose nematode and cestode infections, iii) interpret the qualitative and quantitative data obtained from the laboratory in context with the clinical manifestation, iv) explain treatment, prevention and control of nematode and cestode infections of veterinary importance v) apply the fundamental knowledge and skills to review the situation in the field to design strategic measures to control of nematode and cestode infections in livestock and poultry, vi) describe the zoonotic importance of nematode and cestode infections of domestic animals, and vii) communicate effectively with farmers, clients and public about the pathogenic, economic and zoonotic aspects of nematodes and cestodes and the importance of control of parasitism in domestic animals.	
<b>Time Allocation (Hours):</b> Lectures 22; Tutorials 2; Practical 12; Independent learning 64	
<b>Course content/ Course description:</b> This course consists of two modules: <b>Module I: Nematodes</b> – Morphology, life cycle, pathogenesis, clinical manifestations and treatment of veterinary and/ or zoonotically important nematodes of livestock, poultry and companion animals - ascarids, strongyloides, strongyles, trichostrongyles, metastrongyles, spiruroides and filarids; collection of samples and laboratory diagnostic procedures; interpretation of laboratory results; strategies available for the prevention and control of nematodes under local conditions. <b>Module II: Cestodes</b> - Morphology, life cycle, pathogenesis, clinical manifestations and treatment of veterinary and/ or zoonotically important cestodes of livestock, poultry and companion animals – <i>Moniezia</i> , <i>Avitellina</i> , <i>Anoplocephala</i> , <i>Dipylidium</i> , <i>Taenia</i> , <i>Echinococcus</i> , <i>Davainae</i> , <i>Raillietina</i> and <i>Diphyllobothrium</i> ; laboratory diagnosis; treatment; prevention and control under local conditions.	
<b>Recommended Texts:</b> i) Taylor, M.A., Coop, R.L. & Wall, R.L. (2008) Veterinary Parasitology (3 <sup>rd</sup> Ed). Blackwell Publishing, Oxford. ii) Zajac, A.M.M. & Conboy, G.A. (2012). Veterinary Clinical Parasitology (8 <sup>th</sup> Ed). Wiley – Blackwell, Oxford. iii) Bowman, D.D. (2014). Georgis' Parasitology for Veterinarians (10 <sup>th</sup> Ed). Elsevier, Missouri, USA. iv) Sousby, E.J.L. (1982). Helminths, Arthropods and Protozoa of Domesticated Animals (7 <sup>th</sup> Ed.). Bailliere- Tindall, London.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS2221
<b>Course Title</b>	Veterinary Pharmacology and Toxicology I
<b>No. of Credits</b>	1
<b>Prerequisites</b>	VS1208
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To enable students to understand basic principles veterinary drug therapy.	
<b>Intended Learning Outcomes:</b> At the end of the course students will be able to; i) explain the basic concepts of drug-receptor interactions, ii) explain the basics of pharmacokinetics, in terms of absorption, distribution, metabolism and elimination and relate these to species and individual variation in response to drugs, iii) explain the properties, merits and weaknesses of different drug dosage forms and routes of administration, and iv) describe the principles of drug interactions, adverse reactions, inefficacies and state when such instances must be reported to relevant authorities.	
<b>Time Allocation (Hours):</b> Lectures 10; In-class assignments 6; Practical 4; Independent learning 30	
<b>Course content/ Course description:</b> Introduction to veterinary pharmacology and toxicology; nomenclature of therapeutic agents; overview of dosage forms and routes of administration; principles of pharmacokinetics and pharmacodynamics; adverse drug reaction; therapeutic window; agonists/ antagonists; pharmacokinetic/ pharmacodynamic relationship.	
<b>Recommended Texts:</b> i) Rang, H.P., Ritter, J.M. & Flower, R.J. and Henderson G. (2015). Rang & Dale's Pharmacology (8 <sup>th</sup> Ed.). Churchill Livingstone. ii) Neal M.J. (2012). Medical Pharmacology at a Glance (7 <sup>th</sup> Ed.). Wiley-Blackwell. iii) Maddison, J., Page, S. & Church, D. (2008). Small Animal Clinical Pharmacology (2 <sup>nd</sup> Ed.). W.B. Saunders. iv) Ettinger, S.I. & Feldman, E.C. (2010). Text Book of Veterinary Internal Medicine -Volume I & II (7 <sup>th</sup> Ed.). Saunders Elsevier. v) Bishop, Y. (2004). The Veterinary Formulary (6 <sup>th</sup> Ed.). Pharmaceutical Press in association with The British Veterinary Association.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	35
End-semester	65

<b>Course Code</b>	VS2222
<b>Course Title</b>	Veterinary Virology
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To provide knowledge on common viral diseases of veterinary and zoonotic importance including their transmission, pathogenesis, diagnosis, treatment, control, and where applicable, outbreak control procedures.	
<b>Intended Learning Outcomes:</b> At the end of the course, the students will be able to; i) compare morphology, composition and characteristics of pathogenic animal viruses with other microorganisms, ii) appraise different virus classification systems used in virology, iii) describe host-virus relationship and the mechanisms by which the viruses cause diseases, iv) perform conventional virological techniques and discuss advanced diagnostic techniques, v) provide advice on the implementation of principles of virus disease prevention, control and eradication, vi) explain the biology of pathogenic DNA and RNA viruses in relation to respective diseases, vii) explain how to select, collect, process and dispatch appropriate samples to perform or request laboratory diagnosis to confirm important animal viral diseases, and viii) recommend appropriate prevention and control measures for common animal viral diseases.	
<b>Time Allocation (Hours):</b> Lectures 25; Tutorials 2; Practical 6; Independent learning 67	
<b>Course content/Course description:</b> This course consists of three modules: <b>Module I: General Virology</b> - structure, chemical composition of viruses in comparison to other microorganisms; different virus classification systems; host-virus relationships; viral genetics; conventional virological techniques. <b>Module II: Animal Diseases caused by DNA Viruses</b> - diseases caused by the members of <i>Adenoviridae</i> , <i>Parvoviridae</i> , <i>Herpesviridae</i> , <i>Poxviridae</i> , <i>Papillomaviridae</i> and <i>Circoviridae</i> families. <b>Module III: Animal Diseases caused by RNA Viruses</b> - diseases caused by <i>Rhabdoviridae</i> , <i>Orthomyxoviridae</i> , <i>Paramyxoviridae</i> , <i>Coronaviridae</i> , <i>Picornaviridae</i> , <i>Reoviridae</i> , <i>Retroviridae</i> , <i>Birnaviridae</i> , <i>Arteriviridae</i> and <i>Flaviviridae</i> virus families.	
<b>Recommended Texts:</b> a) <i>Textbooks:</i> i) Maclachain, N. J. & Dubovi, E.J. (2016). Fenner's Veterinary Virology (5 <sup>th</sup> Ed.). Academic Press, USA. ii) Quinn, P. J., Markey, B. K., Leonard, F. C., Fitzpatrick, E. S., Fanning, S. & Hartigan, P. (2011). Veterinary Microbiology and Microbial Disease (2 <sup>nd</sup> Ed.). Wiley-Blackwell, UK. b) <i>Websites:</i> i) <a href="http://www.oie.int/en/publications-and-documentation/scientific-and-technical-review-free-access">http://www.oie.int/en/publications-and-documentation/scientific-and-technical-review-free-access</a> ii) <a href="http://www.virology.net">http://www.virology.net</a>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS2223
<b>Course Title</b>	Animal Science IV
<b>No. of Credits</b>	4
<b>Prerequisites</b>	VS2116
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
<ul style="list-style-type: none"> <li>i) To provide training on management of poultry (e.g. chickens, quail, ducks, and turkeys), swine, and micro- livestock species (e.g. rabbits)</li> <li>ii) To provide training on feed formulation for poultry (broilers, layers, and breeders), swine, fish, shrimp, horses and pet animals</li> </ul>	
<b>Intended Learning Outcomes:</b> At the end of the course, the student will be able to;	
<ul style="list-style-type: none"> <li>i) describe the principles of nutrition and feed metabolism of monogastric species, with emphasis on poultry and swine,</li> <li>ii) explain the importance of balanced nutrition and describe the nutritional requirements of different stages of poultry production,</li> <li>iii) design appropriate feeding regimes for different poultry production systems, and Identify the nutrient requirements, types of feeds/ food, feed formulation and implement practical feeding for pigs, fish, shrimp, dogs, cats and horses,</li> <li>iv) describe and display practical skills in the management of poultry (layers, broilers, hatcheries and chicks),</li> <li>v) explain the importance of record keeping, performance monitoring, biosecurity, farm planning and budgeting, and financial evaluations for different poultry operations,</li> <li>vi) explain market networks for pig and poultry products,</li> <li>vii) describe, and display practical skills in the management of pigs, including housing, feeding, biosecurity and performance evaluation and,</li> <li>viii) describe the breeds and management for minor livestock (rabbits) and poultry species (quail, ducks, turkeys, etc.)</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 35; In-class assignments 13; Practical 17; Field Work 30; Independent learning 105	
<b>Course content/ Course description:</b> Course consists of three modules.	
<b>Module I:</b> Principles of monogastric nutrition - types of feeds and feed additives; practical feeding and feed formulation for poultry, pigs, fish, shrimp, dogs, cats and horses.	
<b>Module II:</b> Poultry production and management, including broiler, layer, breeder flock and hatcheries - principles and types of biosecurity measures; market networks; record keeping, performance monitoring, economic evaluation, farm planning and budgeting for different poultry operations.	
<b>Module III.</b> Swine production and management - including housing, feeding and commercial fattener and breeding operations;	
<b>Module IV.</b> Breeds, uses and management aspects of micro-livestock species.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Flanders, F. &amp; Gillespie, J.R. (2015). Modern Livestock and Poultry Production. Amazon</li> <li>ii) McDonald, P. (2010). Animal Nutrition (7<sup>th</sup> Ed). Benjamin/Cummings Publishing company, Inc., California, USA.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
<b>In-course</b>	40
<b>End-semester</b>	60

<b>Course Code</b>	VS2224
<b>Course Title</b>	Clinical Pathology and Diagnostics
<b>No. of Credits</b>	3
<b>Prerequisites</b>	VS2117
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To explain basic and special veterinary diagnostic (e.g. hematology, serology, cytology, urinalysis, diagnostic imaging etc.) and therapeutic (e.g. fluid therapy, blood transfusion etc.) procedures for management of patients.	
<b>Intended Learning Outcomes:</b> At the completion of the course the student will be able to; i) describe clinical pathological diagnostics and their applications, ii) interpret changes in hematology, serology, cytology, urinalysis, clinical chemistry and diagnostic imaging, to differentiate between normal and abnormal patients, iii) perform minimum clinical diagnostics in clinics, iv) explain the principles of fluid therapy and blood transfusion for clinical management of patients, v) discuss the principles of clinical immunology and be aware of applications of immunotherapy in treatment, prevention and control of animal diseases, and vi) explain principles in the use of vaccines in curative and preventive veterinary medicine.	
<b>Time Allocation (Hours):</b> Lectures 30; In-class assignments: 10; Practical 20; Independent learning 90	
<b>Course content/ Course description:</b> Hematology, serology and chemistry in clinical diagnosis: diseases and disorders related to hematological changes, including anemia; serological testing for infectious diseases; vaccine efficacy and effectiveness; biochemical changes in disease process; diagnostic cytology and urinalysis, including diagnosis of neoplasia; diagnostic imaging: principles of radiography, radiology and ultrasonography; fluid therapy and blood transfusion; clinical immunology and immunotherapy: hypersensitivity, immunotherapy in clinical practice; vaccinology.	
<b>Recommended Texts:</b> i) Bexfield, N., & Lee, K. (2014). <i>BSAVA Guide to Procedures in Small Animal Practice</i> (2nd Ed.). British Small Animal Veterinary Association. ii) Coles, E. H. (1980). <i>Veterinary clinical pathology (3<sup>rd</sup> Ed)</i> . WB Saunders. iii) Day, M. J. (2011). <i>Clinical Immunology of the Dog and Cat</i> . CRC Press. iv) Day, M. J., Mackin, A. & Littlewood, J. D. (2000). <i>BSAVA Manual of Canine and Feline Haematology and Transfusion Medicine</i> . British Small Animal Veterinary Association. v) Dennis, R. (2010). vi) <i>Handbook of Small Animal Radiology and Ultrasound</i> . Churchill Livingstone/Elsevier. vii) Silva, I.D., Mallawa, M.R.C.K. (2010). <i>A Monograph on Clinical Hematology and Veterinary Diagnostic Techniques</i> . Faculty of Veterinary Medicine and Animal Science, University of Peradeniya, Sri Lanka.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS2225
<b>Course Title</b>	Integrated Veterinary Sciences IV
<b>No. of Credits</b>	1
<b>Prerequisites</b>	VS2118
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To further improve students' critical analytical and problem solving skills using a Problem-Based Learning (PBL) approach, and by doing so, (i) to develop their ability to integrate knowledge gained from different pre- and para- clinical disciplines/courses, and (ii) to develop their understanding of the importance of 2 <sup>nd</sup> year courses in the context of the BVSc degree program	
<b>Intended Learning Outcomes:</b> At the end of the course, students will be able to; <ul style="list-style-type: none"> <li>i) demonstrate progression of critical thinking skills from VS2118,</li> <li>ii) synthesize and integrate material from previous and concurrent subjects to critically evaluate provided scenarios,</li> <li>iii) analyze and synthesize solutions to open-ended questions, complex problems and clinical scenarios,</li> <li>iv) formulate an action plan based upon the solution to these problems,</li> <li>v) display a range of professional skills that includes inter-personal skills, team/ collaborative work, communication skills, ICT skills and problem-solving skills,</li> <li>vi) display Intellectual curiosity by finding, managing and applying information from a wide range of sources, and</li> <li>vii) display sound professional judgment, with consideration for appropriate ethical, moral and legal principles.</li> </ul>	
<b>Time Allocation (Hours):</b> In-class assignments 30; Independent learning 20	
<b>Course content/ Course description:</b> The Integrated Veterinary Sciences stem will use a student-centered, PBL approach. Students will be presented with health and/ or management-related problems that will require them to integrate topics covered to-date, with particular reference to the pathophysiology of disease through the integration of pre-clinical and para-clinical disciplines with clinical and animal production sciences. Course teachers will facilitate students' comprehension of each case scenarios by making connections between course-material and additional information obtained through reading. Students will be expected to develop and practice interpersonal, communication and teamworking skills and to express appropriate professional behaviour.	
<b>Recommended Texts:</b> Recommended review articles and electronic resources including videos relevant to the respective scenario/problem will be prescribed during the delivery of the course	
<b>Assessment:</b>	<b>Percentage Mark</b>
In-course:	75
End-semester	25

<b>Course Code</b>	VS3126
<b>Course Title</b>	Veterinary Pathology II
<b>No. of Credits</b>	2
<b>Prerequisites</b>	VS2219
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To impart knowledge on the aetiopathology of common diseases of cardiovascular, respiratory, gastrointestinal and haematopoetic systems, and liver and exocrine pancreas of domestic and animals.	
<b>Intended Learning Outcomes:</b> On successful completion of the course, students will be able to; i) describe the aetiology, pathogenesis, pathophysiology, and sequel of congenital and acquired diseases (including infectious, non-infectious and neoplastic) of the cardiovascular, respiratory, gastrointestinal, haematopoetic systems along with the liver and exocrine pancreas, ii) perform necropsy, sample collection, proper dispatch, record and report the findings using terminology in pathology, and iii) identify gross and microscopic lesions from infectious, non-infectious and neoplastic diseases of cardiovascular, respiratory, gastrointestinal, haematopoetic systems along with the liver and exocrine pancreas.	
<b>Time Allocation (Hours):</b> Lectures 20; In-class assignments 10; Practical 10; Independent learning 60	
<b>Course content/ Course description:</b> This course consists of five modules <b>Module I: Pathology of the cardiovascular system-</b> post mortem changes of the CVS; examination of CVS; congenital and acquired lesions of the heart and major vasculature, compensatory mechanisms for cardiac insufficiency. <b>Module II: Pathology of the respiratory system-</b> postmortem examination; congenital and acquired lesions of the upper and lower respiratory tract. <b>Module III: Pathology of the gastrointestinal system-</b> postmortem examination; congenital and acquired lesions of the mouth, oesophagus, simple and complex stomach and intestines. <b>Module IV: Pathology of the liver and pancreas-</b> hepatic response to injury; congenital and acquired lesions of the liver and pancreas; pancreatic insufficiency. <b>Module V: Pathology of the haematopoetic system-</b> leukocyte response for peripheral diseases; myeloid neoplasms; anemia; disorders of the spleen; degenerative and inflammatory diseases of lymph nodes; lymphoid neoplasms.	
<b>Recommended Texts:</b> i. Slauson, D. O. & Cooper, B. J. (2001). Mechanisms of Disease: A Textbook of Comparative General Pathology (3 <sup>rd</sup> Ed.).Mosby. ii. Thomson, R. G. (2000). General Veterinary Pathology (3 <sup>rd</sup> Ed.). W B SaundersCo. iii. Zachary, J. F. & McGavin, M. D. (2011). Pathologic Basis of Veterinary Disease (5 <sup>th</sup> Ed.). Mosby. iv. McGavin, M. D., Carlton, W.W. & Zachary, J. F. (2000). Thomson's Special Veterinary Pathology (3 <sup>rd</sup> Ed.).Mosby. v. Maxie, G. (2015). Jubb, Kennedy and Palmer's Pathology of Domestic Animals: 3-Volume (6 <sup>th</sup> Ed.). Saunders Ltd.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS3127
<b>Course Title</b>	Veterinary Parasitology II
<b>No. of Credits</b>	2
<b>Prerequisites</b>	VS2220
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To provide knowledge on common trematode, arthropod and protozoan infections of veterinary and zoonotic importance including their transmission, pathogenesis, diagnosis, treatment, control, and where applicable, outbreak control procedures.	
<b>Intended Learning Outcomes:</b> At the end of the course the students will be able to; i) explain the life cycle, mode of transmission, pathogenesis and clinical manifestation, laboratory diagnostic procedures, treatment, prevention and control of common trematode, arthropod and protozoan infections of veterinary importance, ii) collect appropriate samples from sick, dead and apparently healthy, animals and perform suitable laboratory techniques to diagnose trematode, arthropod and protozoan infections, iii) interpret the qualitative and quantitative data obtained from the laboratory in context with the clinical manifestation, iv) apply the fundamental knowledge and skills to design strategic measures to control parasitism in livestock, poultry and fish, v) emphasize the zoonotic importance of trematode, arthropod and protozoan infections of domestic animals, vi) design suitable strategies to overcome anti-parasitic resistance, and vii) communicate effectively with farmers, clients and public about the harmful effects of trematode, arthropod and protozoan parasites and the importance of control of parasitism in domestic animals and fish.	
<b>Time Allocation (Hours):</b> Lectures 22; Tutorials 2; Practical 12; Independent learning 64	
<b>Course content/ Course description:</b> This course consists of three modules: <b>Module I: Trematodes</b> - classification, basic morphology, life cycle, pathogenesis, clinical manifestations, treatment, prevention and control of veterinary and/ or zoonotically important trematodes of domestic animals – Paramphistomes, <i>Explanatum</i> , <i>Fasciola</i> , <i>Paragonimus</i> and <i>Schistosoma</i> ; sample collection and laboratory diagnosis. <b>Module II: Arthropods</b> – Basic morphology; basic biology; vectors; clinical consequences of arthropod infestation in domestic animals – dipterans, ixodid and argasid ticks, mange mites, fleas and lice; nasal, somatic, gastric and cutaneous myiasis; laboratory diagnosis; prevention and control. <b>Module III: Protozoa and Fish Parasites/ Special Topics</b> – Basic morphology, life cycle, pathogenesis, clinical manifestations, laboratory diagnosis, treatment, prevention and control (individual, herd and national basis) of veterinary and/ or zoonotically important protozoa – <i>Entamoeba</i> , <i>Balantidium</i> , <i>Giardia</i> , <i>Histomonas</i> , <i>Eimeria</i> , <i>Cryptosporidium</i> , <i>Leishmania</i> , <i>Trypanosoma</i> , <i>Babesia</i> , <i>Theilaria</i> , <i>Hepatozoon</i> , <i>Plasmodium</i> , <i>Leucocytozoon</i> , <i>Sarcocystis</i> , <i>Toxoplasma</i> , <i>Neospora</i> and <i>Trichomonas</i> ; Mode of transmission, clinical features, laboratory diagnosis, prevention and control of parasites of fish-Ciliates, Flagellates, Monogeneans, Crustaceans, Nematodes, Cestodes, Digeneans and Haemogregarines; advanced techniques to diagnose parasitism; anti-parasitic resistance.	
<b>Recommended Texts:</b> i) Taylor, M.A., Coop, R.L. & Wall, R.L. (2008). Veterinary Parasitology (3 <sup>rd</sup> Ed). Blackwell Publishing, Oxford. ii) Zajac, A.M.M. & Conboy, G.A. (2012). Veterinary Clinical Parasitology (8 <sup>th</sup> Ed). Wiley – Blackwell, Oxford. iii) Bowman, D.D. (2014). Georgis' Parasitology for Veterinarians (10 <sup>th</sup> Ed). Elsevier, Missouri, USA. iv) Soulsby, E.J.L. (1982). Helminths, Arthropods and Protozoa of Domesticated Animals (7 <sup>th</sup> Ed). Bailliere Tindall, London.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS3128
<b>Course Title</b>	Veterinary Pharmacology and Toxicology II
<b>No. of Credits</b>	3
<b>Prerequisites</b>	VS2221
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To describe common classes of drugs and biologicals used in veterinary practice, emphasizing the rational use of therapeutic agents, adverse drug reactions, and regulatory and legal provisions related to veterinary practice.	
<b>Intended Learning Outcomes:</b> At the end of the course students will be able to;	
<ul style="list-style-type: none"> <li>i) explain the modes of action and spectrum of activity of the commonly used antimicrobial, anti-parasitic and anticancer drugs and the ways to minimize the development of drug resistance and side-effects,</li> <li>ii) discuss the modes of action, indications, side-effects and limitations of therapeutic agents acting on different body systems; and in anaesthesia, emergencies, ophthalmology, dermatology, and animal reproduction,</li> <li>iii) describe types of pain, internal mechanisms of pain tolerance, and modes of action, indications, side-effects and limitations of drugs for treating pain,</li> <li>iv) describe the properties of vaccines and the importance and principles of immunization of animals,</li> <li>v) describe common drug, plant and other chemicals toxicities occur in animals and approaches in investigating and managing such intoxications,</li> <li>vi) explain the public health risks associated with veterinary drug residues and other toxicants in animal originated food and ways of minimizing these hazards, and</li> <li>vii) explain the regulatory/ legal provisions relevant to the use of drugs in veterinary practice, including writing prescriptions, drug schedules and the legislative controls on the availability of drugs.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 30; In-class assignments 15; Practical 5; Clinicals (by observation) 20; Independent learning 80	
<b>Course content/ Course description:</b> Antimicrobial and antiparasitic agents - classification, mode of action, intrinsic and acquired resistance; antineoplastic therapy - categories of drugs and managing side effects; therapeutic agents acting on gastrointestinal, respiratory, cardiovascular, urinary and reproductive systems; central, peripheral and autonomic nervous systems; eye and ski; pain and pain management; general classes of drugs used in anaesthesia and emergencies; vaccines: principles, clinical application, benefits and limitations; population (herd) immunity; toxicology: principles, investigation, treatment; adverse drug reactions; regulation of drug use: registration, meat withholding periods, public health risk; prescription-writing, off-label uses of therapeutic agents.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Rang, H. P., Ritter, M., Flower, R.J. &amp; Henderson G. (2015). Rang and Dale's Pharmacology (8<sup>th</sup> Ed.) Churchill Livingstone.</li> <li>ii) Neal M.J. (2012). Medical Pharmacology at a Glance (7<sup>th</sup> Ed.) Wiley-Blackwell.</li> <li>iii) Maddison, J., Page, S. &amp; Church, D. (2008). Small Animal Clinical Pharmacology (2<sup>nd</sup> Ed.). W.B. Saunders.</li> <li>iv) Ettinger, S.J. and Feldman, E.C. (2010). Textbook of Veterinary Internal Medicine - Volume I &amp; II (7<sup>th</sup> Ed.). Saunders Elsevier.</li> <li>v) Bishop, Y. (2004). The Veterinary Formulary (6<sup>th</sup> Ed.). Pharmaceutical Press in association with the British Veterinary Association.</li> <li>vi) Brander, G.C., Pugh, D. M., Bywater, D.M. and Jenkins, W. L. (1991). Veterinary Applied Pharmacology &amp; Therapeutics (5<sup>th</sup> Ed.). W. B. Saunders</li> <li>vii) Klassen, C.D. (2013). Casarett and Doull's Toxicology: The Basic Science of Poisons (8<sup>th</sup> Ed.) McGrawHill.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS3129
<b>Course Title</b>	Farm Animal Production and Health I
<b>No. of Credits</b>	4
<b>Prerequisites</b>	VS2113 and VS2224
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
<ul style="list-style-type: none"> <li>i) To provide training on applied farm animal reproduction, and diagnosis, treatment and management of infertility in males and females.</li> <li>ii) To develop skills of investigation, diagnosis, treatment, control &amp; prevention of disease in individual animals &amp; at the herd level, with special emphasis on metabolic diseases &amp; mastitis.</li> </ul>	
<b>Intended learning Objectives:</b>	
At the completion of the course student will be able to;	
<ul style="list-style-type: none"> <li>i) describe the endocrine control of the oestrous cycle, pregnancy and the post-partum period and explain basic concepts of hormonal manipulation of oestrous cycle in farm animals,</li> <li>ii) assess the reproductive status of cattle and buffalo by manual rectal palpation and describe the usefulness of ultrasonography and hormonal measurement for assessing the status of reproductive system in farm animals,</li> <li>iii) explain how to diagnose, treat and control important reproductive disorders and other causes of infertility in female and male farm animals, and apply the principles of herd fertility management program for improving reproductive efficiency of farm animals,</li> <li>iv) explain the selection of semen donors for artificial insemination programs and studs for natural mating; explain production, storage and distribution of semen, and perform artificial insemination (AI),</li> <li>v) describe the evaluation of field performance of AI service, stud animals used for natural service and as semen donors, and discuss the application of reproductive biotechnologies for improving productivity of farm animals,</li> <li>vi) conduct general and special clinical examination for arriving at a diagnosis of diseases/ disorders in farm animals and investigations of disease outbreaks,</li> <li>vii) discuss physiological adaptation and consequences of negative energy balance (NEB) in farm animals, diagnosis, treatment and control measures for diseases/ disorders caused by irregular energy and mineral metabolism, and</li> <li>viii) describe the diagnosis, treatment, control and prevention of mastitis in farm animals.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 35; Tutorials 4; Practical 36; Clinical work 9; Independent learning 116	
<b>Course content/ Course description:</b>	
Review of reproductive physiology of farm animals; normal reproductive process and common factors causing reduced reproductive efficiency; diagnosis of pregnancy; causes, diagnosis, treatment and control of embryonic death; abortion and repeat breeding; common congenital and acquired lesions of the female and male reproductive system; semen collection, evaluation and insemination; assisted reproductive technologies; disease investigation and management in herds; transition cow management; diagnosis, treatment and management of mastitis.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Parkinson, T.J., Vermunt, J.J. &amp; Malmo, J. (2009). Diseases of Cattle in Australasia. Published by The New Zealand Veterinary Association Foundation for Continuing Education (VetLearn®).</li> <li>ii) Noakes, D.E., Parkinson, T.J. Timothy J., England, G. C.W. &amp; Arthur, G.H. (2009). Arthur's Veterinary Reproduction and Obstetrics (9<sup>th</sup> Ed.). Elsevier.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	20
End-semester	80

<b>Course Code</b>	VS3130
<b>Course Title</b>	Companion Animal Health I
<b>No. of Credits</b>	4
<b>Prerequisites</b>	VS2224
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To explain and develop practical skills relating to disorders, therapeutics and surgical methods of the gastrointestinal system, integumentary system and reproductive systems	
<b>Intended Learning Outcomes:</b> At the end of the course, students will be able to;	
<ul style="list-style-type: none"> <li>i) recognize common disorders of the gastro-intestinal tract (GIT) and associated organs; explain relevant pathophysiological process, diagnosis and treatment of patients and conduct clinical examination of the GIT,</li> <li>ii) recognize common dermatological disorders, explain relevant pathophysiological process, diagnosis and treatment options for patients, perform clinical examination and diagnostic sampling, interpret results and diagnosis conditions,</li> <li>iii) explain pathophysiological basis of common reproductive problems in dogs and cats, perform relevant diagnostic procedures and treatments for these patients, and</li> <li>iv) demonstrate basic surgical skills by assisting with surgical cases of the gastrointestinal and reproductive systems and providing postoperative management for these patients.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 45; Demonstrations (clinical) 5; Practical 20; Independent learning 130	
<b>Course content/ Course description:</b> Disorders of the gastrointestinal system; history, clinical signs and clinical examination of the GIT, liver and pancreas; vomiting, diarrhea, fluid and acid-base therapy; medical and surgical conditions of the GIT, liver and pancreas, treatment (including surgery) and prognosis; disorders of the integument -history and presentation, collection of diagnostic samples, diagnosis, options for treatment, prognosis and prevention; disorders of the reproductive system - female reproductive endocrinology; control of the oestrous cycle; pregnancy and parturition, including stages of labour, dystocia and other abnormalities of pregnancy; caesarean section; De-sexing surgery and other common surgical conditions of the reproductive system of male and female animals; care and management of the bitch during pregnancy and the postpartum period; neonatal care.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Ettinger, S. J. &amp; Feldman, E. C. (2009). <i>Textbook of Veterinary Internal Medicine- eBook</i>. Elsevier Health Sciences.</li> <li>ii) Papich, M. G. (2002). <i>Saunders Handbook of Veterinary Drugs</i>. Saunders.</li> <li>iii) Seymour, C., Duke-Novakovski, T. &amp; Mendenhall, V. (2008). <i>BSAVA Manual of Canine and Feline Anaesthesia and Analgesia (3<sup>rd</sup> Ed)</i>. John Wiley &amp; Sons.</li> <li>iv) Hickman, J, &amp; Walker, R.G (1980). <i>An Atlas of Veterinary Surgery (2<sup>nd</sup> Ed.)</i>. J. W. &amp; Sons.</li> <li>v) Lipowitz, A .J., Caywood, D .D., Newton, C .D. &amp; Schwartz, A. (1996). <i>Complications in Small Animal Surgery: Diagnosis, Management, Prevention</i>. Williams &amp; Wilkins.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS3131	
<b>Course Title</b>	Integrated Veterinary Sciences V	
<b>No. of Credits</b>	1	
<b>Prerequisites</b>	VS2225	
<b>Compulsory/ Optional</b>	Compulsory	
<b>Aim(s):</b>	To further improve students' critical analytical and problem solving skills using a Problem-Based Learning (PBL) approach, and by doing so, (i) to develop their ability to integrate knowledge gained from different pre-clinical, para-clinical, clinical and animal production disciplines/courses learned to-date, and (ii) to develop their understanding of the importance of Y3S1 courses in the context of the BVSc degree program	
<b>Intended Learning Outcomes:</b>	<p>At the end of the course students will be able to;</p> <ul style="list-style-type: none"> <li>i) demonstrate progression of critical thinking skills from VS2225,</li> <li>ii) synthesize and integrate material from previous and concurrent subjects to critically evaluate provided scenarios,</li> <li>iii) analyze and synthesize solutions to open-ended questions, complex problems and clinical scenarios,</li> <li>iv) formulate an action plan based upon the solution to these problems,</li> <li>v) display a range of professional skills that includes inter-personal skills, team/ collaborative work, communication skills, ICT skills and problem-solving skills,</li> <li>vi) display Intellectual curiosity by finding, managing and applying information from a wide range of sources, and</li> <li>vii) display sound professional judgement, with consideration for appropriate ethical, moral and legal principles.</li> </ul>	
<b>Time Allocation (Hours):</b>	In-class assignments 30; Independent learning 20	
<b>Course content/ Course description:</b>	The Integrated Veterinary Sciences stem will use a student-centered Problem Based Learning (PBL) approach. Students will be presented with health and/ or management-related problems that will require them to integrate topics covered to-date, with reference to the pathophysiology of disease through the integration of para-clinical disciplines with clinical and animal production sciences. Course teachers will facilitate students' comprehension of each case scenarios by making connections between course-material and additional information obtained through reading. Students will be expected to develop and practice interpersonal, communication and teamworking skills and to express appropriate professional behaviour.	
<b>Recommended Texts:</b>	Recommended review articles and electronic resources including videos relevant to the respective scenario/ problem will be prescribed during the delivery of the course.	
<b>Assessment:</b>	<b>Percentage Mark</b>	
In-course:	75	
End-semester	25	

<b>Course Code</b>	VS3232
<b>Course Title</b>	Veterinary Pathology III
<b>No. of Credits</b>	2
<b>Prerequisites</b>	VS3126
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To impart knowledge on the aetiopathology of diseases of the musculoskeletal, nervous, urinary, Integumentary and reproductive systems, and endocrine organs of domestic animals.	
<b>Intended Learning Outcomes:</b> On successful completion of the course, students will be able to; <ul style="list-style-type: none"> <li>i) describe the etiology, pathogenesis, pathophysiology, and sequel of congenital and acquired (including infectious, non-infectious and neoplastic diseases) of systemic diseases, and diseases of the musculoskeletal, nervous, urinary, integumentary and reproductive systems, and endocrine organs,</li> <li>ii) perform necropsy, sample collection, proper dispatch, record and report the findings using terminology in pathology and,</li> <li>iii) identify gross and microscopic lesions of congenital and acquired (including infectious, non-infectious and neoplastic diseases) of systemic diseases, and diseases of the musculoskeletal, nervous, urinary, integumentary and reproductive systems, and endocrine organs.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 20; In-class assignments 10; Practical 10; Independent learning 60	
<b>Course content/Course description:</b> This course consists of six modules: <b>Module I: Pathology of the musculoskeletal system</b> - Congenital and acquired myopathies, disorders of the neuro-muscular junction; congenital and acquired lesions of bone, including the response of bone to injury. <b>Module II: Pathology of the nervous system</b> - Responses of the CNS to injury; developmental and congenital anomalies of the CNS; infectious and prion diseases; traumatic injury; vascular disturbances, toxicities and neoplasia. <b>Module III: Pathology of the urinary system</b> -Developmental anomalies; circulatory disturbances, degenerative and neoplastic diseases, renal failure; congenital and acquired lesions of the lower urinary tract; urolithiasis. <b>Module IV: Pathology of the integumentary system</b> - Responses to injury, congenital and acquired lesions of the integument/adnexa. <b>Module V: Pathology of the reproductive system</b> - Congenital and acquired lesions of the male and female reproductive organs, including the pregnant uterus and fetus. <b>Module VI: Pathology of the endocrine system</b> - Diseases of pituitary, adrenal cortex and medulla, thyroid, parathyroid and endocrine pancreas.	
<b>Recommended Texts:</b> <ul style="list-style-type: none"> <li>i) Slauson, D. O. &amp; Cooper, B. J. (2001). Mechanisms of Disease: A Textbook of Comparative General Pathology (3<sup>rd</sup> Ed). Mosby.</li> <li>ii) Thomson, R. G. (2000). General Veterinary Pathology (3<sup>rd</sup> Ed). W B Saunders Co.</li> <li>iii) Zachary, J. F. &amp; McGavin, M. D. (2011). Pathologic Basis of Veterinary Disease (5<sup>th</sup> Ed.) Mosby.</li> <li>iv) McGavin, M. D., Carlton, W. W. &amp; Zachary, J. F. (2000). Thomson's Special Veterinary Pathology 3<sup>rd</sup> ed. Mosby.</li> <li>v) Maxie, G. (2015). Jubb, Kennedy &amp; Palmer's Pathology of Domestic Animals: 3-Volume Set (5<sup>th</sup> Ed.). Saunders Ltd.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS3233
<b>Course Title</b>	Biostatistics
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To develop students' skills in simple parametric and nonparametric statistical methods to enable them to analyze and interpret data obtained from surveys, design experiments and epidemiological investigations, to derive inferences and conclusions.	
<b>Intended Learning Outcomes:</b> At the end of the course the students will be able to; i) explain the importance of analyzing data and apply data summarizing techniques (manually and by using software), ii) formulate hypothesis and test them (applied for different types of data), collect, collate & analyze experimental data with the application of statistical software and interpret results to draw rational conclusions backed with an acceptable degree of confidence, iii) plan/ design an experiment and calculate required sample size, iv) analyze and interpret results of simple contingency tables, including both parametric and non-parametric categorical data analyses, and v) apply regression models to test for linear and non-linear associations between variables, assess the strength of association (correlation) interpret and make appropriate predictions with the application of statistical software.	
<b>Time Allocation (Hours):</b> Lectures 22; Tutorials 3; Practical 10; Independent learning 65	
<b>Course content/Course description:</b> This course comprises of two modules; <b>Module I: Basic Statistics</b> - Statistical terminologies; Descriptive statistics; Empirical distribution functions; Different probability distributions, Probabilities and sampling; Application of statistical software to obtain descriptive statistics (numeric and graphics). <b>Module II: Inferential Statistics</b> – Concept of hypothesis testing using different statistical applications (Z, t, $\chi^2$ , F distributions, permutation and rank tests) based on the type of data (including experimental design, one sample, two sample and paired data); Analysis of variance procedures and regression analysis; Application of statistical software to conduct hypothesis testing with different types of statistical applications.	
<b>Recommended Texts:</b> i) Petrie, A. & Watson, P. (2003). Statistics for Veterinary and Animal Science (3 <sup>rd</sup> Ed.). Wiley- Blackwell. ii) Le, C. T. (2006). Introductory Bio Statistics (2 <sup>nd</sup> Ed.). Wiley.	
<b>Assessment</b>	<b>Percentage Mark</b>
<b>In-course</b>	40
<b>End-semester</b>	60

<b>Course Code</b>	VS3234
<b>Course Title</b>	Epidemiology
<b>No. of Credits</b>	2
<b>Prerequisites</b>	VS2114, VS2222, and VS3127
<b>Compulsory/ Optional</b>	Compulsory
<b>Aims:</b> To explain and develop skills on descriptive and analytic epidemiology	
<b>Intended Learning Outcomes:</b> On successful completion of the course, students will be able to; <ul style="list-style-type: none"> <li>i) define epidemiology and compare epidemiology with other disciplines,</li> <li>ii) explain measurements of disease occurrence such as prevalence, incidence, mortality and morbidity,</li> <li>iii) explain the association between 'exposure' and 'outcome' with regard to diseases/ conditions to assist implementing preventive measures,</li> <li>iv) explain epidemiological principles and tools for disease outbreak investigations,</li> <li>v) explain basic problems in data sets, and introduce ways and means of minimizing 'bias', and enhancing 'validity' and 'precision',</li> <li>vi) plan epidemiological investigations using its principles to investigate hypotheses,</li> <li>vii) collect and analyze data in real outbreak situations and design control measures, and</li> <li>viii) select appropriate diagnostic tests for a given situation and compare and evaluate the results derived from such tests.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 20; In-class assignments 15; Practical 5; Independent learning 60	
<b>Course content/Course description:</b> Epidemiology as a discipline; definitions and terminology; infectious and non-infectious causes of diseases, outbreak investigations; multi-factorial nature of disease/ conditions, Koch's postulates; association between exposure and outcome; Introduction to epidemiological measures of diagnostic tests; study design, data collection, analysis and interpretation of results; data handling, sampling and surveys, collection and entry of data; basic epidemiological analyses, identifying problems in data, methods of sampling and respective data analysis.	
<b>Recommended Texts:</b> <ul style="list-style-type: none"> <li>i) Kelsey, J. L., Thompson, W.G. &amp; Evans, A.S. (1986). Methods in Observational Epidemiology. Oxford University Press, New York, USA.</li> <li>ii) Fletche, R., Fletcher, S.W. &amp; Wagner, E.H. (1988). Clinical Epidemiology- the Essentials. Williams and Wilkins, Baltimore, USA.</li> <li>iii) Kahn H. &amp; Sempos, C.T. (1989). Statistical Methods in Epidemiology. Oxford University Press. USA. Martin, SW., Meek, A.H. &amp; Willeberg, P. (1987). Veterinary Epidemiology: Principles and Methods. , Iowa state University Press, USA.</li> <li>iv) Rothman, K.J. (1986). Modern Epidemiology. Little, Brown and Company, Boston, Toronto.</li> </ul>	
<b>Assessment</b>	Percentage Mark
In-course	40
End-semester	60

<b>Course Code</b>	VS3235
<b>Course Title</b>	Farm Animal Production and Health II
<b>No. of Credits</b>	3
<b>Prerequisites</b>	VS3129
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
<ul style="list-style-type: none"> <li>i) To provide training on management of dystocia and postpartum complications in cattle, buffalo, pig and goats.</li> <li>ii) To develop students' skills of diagnosis, treatment, control and prevention of disorders associated with digestive, cardiovascular, haematopoietic and locomotor systems of farm animals, and common disorders of neonatal farm animals.</li> <li>iii) To demonstrate &amp; provide guided practice of common minor surgical conditions of farm animals.</li> </ul>	
<b>Intended Learning Outcomes:</b>	
At the completion of the course student should be able to;	
<ul style="list-style-type: none"> <li>i) diagnose, and design appropriate management for, common causes of dystocia,</li> <li>ii) diagnose &amp; treat common diseases affecting the digestive, cardio-vascular, respiratory, locomotor &amp; haematopoietic systems; and explain important control and preventive measures,</li> <li>iii) explain the pathogenesis of diarrhoea, list the major differentials and formulate treatment plan for diarrhoea,</li> <li>iv) describe how to minimise perinatal losses; diagnose, treat, and prevent neonatal diseases,</li> <li>v) prepare farm animals for emergency and elective surgeries (including wound management); and describe how to maintain asepsis under field conditions,</li> <li>vi) apply local, regional and general aesthetic techniques in farm animals, and</li> <li>vii) perform commonly encountered minor surgical procedures in farm animal and discuss the management of post-surgical complications.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 25; In-class assignments 10; Clinical work 45; Independent learning 70	
<b>Course content/ Course description:</b>	
Maternal and fetal causes of dystocia, their treatment and common complications; examination, causes, aetiology, pathogenesis, presentation, diagnosis, treatment and prevention of disorders of the gastrointestinal system (including ruminant stomachs); disorders of the cardiovascular, respiratory, haematopoietic, hepatobiliary and locomotor systems; examination, causes, aetiology, pathogenesis, presentation, diagnosis, treatment and prevention; causes and risk factors for neonatal losses, common disorders, investigation of disease outbreaks; causes of lameness in dairy cows (with particular emphasis on the foot), treatment, prevention and economic consequences; local, regional and general aesthetic techniques in farm animals; common minor surgical procedures in farm animal; preparation for surgery, surgical instruments and techniques; management of post-surgical complications.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Parkinson, T.J, Vermunt, J.J. and Malmo, J. (2009). Diseases of Cattle in Australasia, The New Zealand Veterinary Association Foundation for Continuing Education (VetLearn®).</li> <li>ii) Fubini S.L. and DuCharme, N. (2004). Farm Animal Surgery (2<sup>nd</sup> Ed.). Saunders.</li> <li>iii) Grimm, K.A., Lamont, L.A, Tranquilli, W.J., Greene, S.A., and Robertson, S.A. (2015). Veterina Anesthesia and Analgesia (5<sup>th</sup> Ed.). Wiley-Blackwell.</li> <li>iv) Noakes, D/E., Parkinson, T.J., England, G.C.W., and Arthur, G.H. (2009). Arthur's Veterinary Reproduction and Obstetrics (9<sup>th</sup> Ed.). Published by Elsevier.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
<b>In-course</b>	30
<b>End-semester</b>	70

<b>Course Code</b>	VS3236
<b>Course Title</b>	Companion Animal Health II
<b>No. of Credits</b>	3
<b>Prerequisites</b>	VS3130
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To explain and develop practical skills relating to disorders, therapeutics and surgical methods of the cardiovascular and respiratory, neuromuscular, skeletal and urinary systems	
<b>Intended Learning Outcomes:</b> At the completion of the course the student will be able to; <ul style="list-style-type: none"> <li>i) describe and recognize common disorders of the cardiorespiratory and associated organs, explain pathophysiological process causing these conditions; conduct a clinical examination; and describe the treatment of patients,</li> <li>ii) describe and recognize common disorders of the neuromuscular skeletal system; explain the pathophysiological process causing these conditions; conduct a clinical examination; and describe the treatment of patients,</li> <li>iii) describe and recognize common urological conditions; perform clinical examination, diagnostic sampling and interpretation of sample results, describe the treatment of patients, and</li> <li>iv) demonstrate basic surgical skills by assisting with surgical cases and post-operative care of urological and orthopedic surgical cases.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 30; Demonstrations (clinical) 4; In-class assignments 14; Clinical work 12; Independent learning 90	
<b>Course content/ Course description:</b> Procedure for taking a complete clinical history of cardiovascular (CV) system; pathophysiology, clinical signs and management of circulatory shock; examination of the CV system through auscultation, radiology, electrocardiography, echocardiography, advanced cardiology diagnostics; interpretation of results; interaction between renal and cardiovascular systems; common abnormalities of the respiratory system, including exercise intolerance; clinical examination of the respiratory system. Neurologic examination of dogs and cats; localization of a neurological lesion; common disorders of the neurological system; common medical and surgical conditions of the urinary system; pathogenesis, diagnosis, management and prognosis for these conditions; systematic orthopedic examination; common orthopedic disorders; decision-making and procedures for surgical correction of orthopedic disorders.	
<b>Recommended Texts:</b> <ul style="list-style-type: none"> <li>i) Ettinger, S. J. &amp; Feldman, E. C. (2009). Textbook of Veterinary Internal Medicine (7<sup>th</sup> Ed). Elsevier Health Sciences.</li> <li>ii) Papich, M. G. (2011). Saunders Handbook of Veterinary Drugs (3<sup>rd</sup> Ed). Saunders.</li> <li>iii) Clarke, K. W. &amp; Trim, C. M. (2013). Veterinary Anesthesia (11<sup>th</sup> Ed.). Elsevier Health Sciences.</li> <li>iv) Seymour, C., Duke-Novakovski, T. &amp; Mendenhall, V. (2008). BSAVA Manual of Canine and Feline Anaesthesia and Analgesia (3<sup>rd</sup> Ed.). John Wiley &amp; Sons.</li> <li>v) Denny, H. &amp; Butterworth, S. (2008). A Guide to Canine and Feline Orthopaedic Surgery (4<sup>th</sup> Ed.). John Wiley &amp; Sons.</li> <li>vi) Fuentes, L. &amp; Swift, S. (1998). BSAVA Manual of Small Animal Cardiorespiratory Medicine and Surgery (2<sup>nd</sup> Ed.). British Small Animal Veterinary Association.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS3237
<b>Course Title</b>	Economics for Veterinarians
<b>No. of Credits</b>	2
<b>Prerequisites</b>	VS1104 and VS1210
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To impart knowledge on basic economics with an introductory understanding of international economics as it relates to trade in animals and animal products.	
<b>Intended Learning Outcomes:</b> At the end of the course the students will be able to; i) describe the basic concepts of consumer behavior, demand and supply, production and costs, and structure and functions of markets in the context of a veterinarian, ii) explain the principles and practices of farm planning, farm budgeting and investment appraisal, iii) distinguish economic growth and development, and appraise the livestock development policies implemented in Sri Lanka, and iv) explain the situations related to the international business and trade related to livestock sector.	
<b>Time Allocation (Hours):</b> Lectures 25; Tutorials 2; Practical 6; Independent learning 67	
<b>Course content/ Course description:</b> This course consists of three modules: <b>Module I: Principles of Livestock Economics</b> –Basic concepts of economics and markets; consumer theory; demand and supply and price determination; theory of a firm; markets and market structures. <b>Module II: Livestock Farm Planning</b> - Farm planning; Farm budgeting; investment appraisal. <b>Module III: Livestock development, Policy and Trade-</b> Growth and development; present livestock policies in Sri Lanka; globalization and international business of livestock products.	
<b>Recommended Texts:</b> i) Mankiw, G.N. (2012). Principles of Economics (6 <sup>th</sup> Ed.). South-Western Cengage Learning. ii) Penson, J.B., Capps, O., Rosson, C.P. & Woodward, R.T. (2013). Introduction to Agricultural Economics (5 <sup>th</sup> Ed.). New Jersey: Pearson Prentice Hall.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS3238
<b>Course Title</b>	Research Project I
<b>No. of Credits</b>	1
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
<ul style="list-style-type: none"> <li>i) To provide a basic understanding of systematic design of research projects, research ethics, and research planning.</li> <li>ii) To enable students to explore an area of interest in depth, while developing skills to prepare them for further education, training and work.</li> </ul>	
<b>Intended Learning Outcomes:</b>	
At the successful completion of the course students will be able to;	
<ul style="list-style-type: none"> <li>i) design and plan a research project applying principles for good research design and selection of appropriate methods,</li> <li>ii) discuss responsible conduct of research, risks and ethical issues in relation to project implementation and quality of research design,</li> <li>iii) argue logically and think critically within the parameters of an academic discipline, and</li> <li>iv) demonstrate independent learning skills necessary for the foundation of lifelong learning.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 10; Practical 10; Independent learning 30	
<b>Course content/ Course description:</b>	
Principles of research design, literature review, problem identification, development of hypotheses and research questions, determination of data requirements, research methods, research planning, data collection, analysis and interpretation; fundamentals of ethics and bioethics; scientific misconduct, ethical planning and conducting of a research project.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Creswell, John W. (2013). <i>Research Design: Qualitative, Quantitative, and Mixed Methods Approaches</i> (4<sup>th</sup> Ed.). SAGE Publications.Inc.</li> <li>ii) Dawson, C. (2009). <i>Introduction to research methods: A Practical Guide for Anyone Undertaking a Research Project</i>, (4<sup>th</sup> Ed). How to Books Ltd. Oxford,UK.</li> <li>iii) Booth, W. C., Colomb, G. G. and Williams, J. M. (2008). <i>The Craft of Research</i>. (3<sup>rd</sup> Ed), University of Chicago Press. Chicago,USA.</li> <li>iv) Sana Loue (2000). <i>Textbook of Research Ethics: Theory and Practice</i>. Springer Science &amp; Business Media. USA.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	30
End-semester	70

<b>Course Code</b>	VS3239
<b>Course Title</b>	Integrated Veterinary Sciences VI
<b>No. of Credits</b>	1
<b>Prerequisites</b>	VS3131
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To further improve students' critical analytical and problem solving skills by making them dissect real- world problems of multidisciplinary nature, and by doing so, (i) to develop their ability to integrate knowledge gained from different courses learned to-date, and (ii) to develop their understanding of the importance of 3 <sup>rd</sup> year courses in the context of the BVSc degree program	
<b>Intended Learning Outcomes:</b> At the end of the course, students will be able to; <ul style="list-style-type: none"> <li>i) demonstrate progression of critical thinking skills from VS3131,</li> <li>ii) synthesize and integrate material from previous and concurrent subjects to critically evaluate provided scenarios,</li> <li>iii) analyze and synthesize solutions to open-ended questions, complex problems and clinical scenarios,</li> <li>iv) formulate an action plan based upon the solution to these problems,</li> <li>v) display sustained development of a range of professional skills that includes inter-personal skills, team/ collaborative work, communication skills, ICT skills and problem-solving skills,</li> <li>vi) display a range of professional skills that includes inter-personal skills, team/ collaborative work, communication skills, ICT skills and problem-solving skills,</li> <li>vii) display Intellectual curiosity by finding, managing and applying information from a wide range of sources, and</li> <li>viii) display sound professional judgment, with consideration for appropriate ethical, moral and legal principles.</li> </ul>	
<b>Time Allocation (Hours):</b> In-class assignments 30; Independent learning 20	
<b>Course content/ Course description:</b> The Integrated Veterinary Sciences stem will use a student-centered Problem Based Learning (PBL) approach. Students will be presented with health and/ or management-related problems that will require them to integrate topics covered to-date, with reference to the pathophysiology of disease through the integration of para-clinical disciplines with clinical and animal production sciences. Course teachers will facilitate students' comprehension of each case scenarios by making connections between course-material and additional information obtained through reading. Students will be expected to develop and practice interpersonal, communication and team working skills and to express appropriate professional behaviour.	
<b>Recommended Texts:</b> Recommended review articles and electronic resources including videos relevant to the respective scenario/ problem will be prescribed during the delivery of the course	
<b>Assessment:</b>	<b>Percentage Mark</b>
In-course:	75
End-semester	25

<b>Course Code</b>	VS4140
<b>Course Title</b>	Veterinary Public Health I
<b>No. of Credits</b>	3
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To impart knowledge of zoonotic diseases, legislation pertaining to veterinary practice, management of waste from animal industries, prevention and control of hazards of veterinary public health importance, and the role of the veterinarian working at the interface between human, animal and environmental health with an emphasis of the 'One Health' approach	
<b>Intended Learning Outcomes:</b> At the end of the course the student will be able to; i) define veterinary public health, describe the role of veterinarian in public health, ii) classify zoonotic diseases and describe emerging and re-emerging zoonotic diseases, iii) explain 'one health' concept and strategies, and the role of veterinarian working at the interface between human, animal and environmental health, iv) retrieve information from electronic data bases/ sources on zoonotic diseases, v) describe health complications caused by different zoonoses and critically evaluate existing prevention and control measures with special reference to <b>biosecurity</b> , vi) explain methods of gathering and analysis of information from the public/ community on zoonotic diseases and educating them on disease control, vii) describe principles of risk analysis in the control of zoonoses, and the application of 'one health' strategies with examples in managing emerging and re-emerging zoonoses, including on-going control programs in Sri Lanka, viii) explain the principles of outbreak investigation, surveillance and monitoring for the prevention and control of food borne zoonoses and antimicrobial resistance, ix) explain the role and powers vested with veterinarians in dealing with animal transport, disease control, welfare, and waste management, and x) discuss the pollutants associated with animal husbandry and animal food processing industries including their effect on biodiversity, and design control programs to minimize these pollutants as well as to mitigate the effects of such pollutants.	
<b>Time Allocation (Hours):</b> Lectures 33; Tutorials 3; Practical 12; Field work 9; Independent learning 93	
<b>Course content/ Course description:</b> Zoonotic diseases; introduction to veterinary public health and zoonoses; health implications of important zoonoses in Sri Lanka; biosecurity as a means of prevention and control of zoonoses; epidemiology and ecology of zoonoses and risk analysis in the context of foodborne pathogens, emerging and re-emerging zoonoses and the one health concept; outbreak investigation, surveillance and monitoring of zoonoses; antimicrobial resistance; legislation pertaining to veterinary practices in Sri Lanka; environmental pollution and waste management in relation to animal industry; environmental pollution and bio-diversity; waste management and renewable resources.	
<b>Recommended Texts:</b> i) Krause, D.O. & Hendrick, S. (2011). Zoonotic Pathogens in the Food Chain. CAB International. ii) Buncic, S. (2006). Integrated Food Safety and Veterinary Public Health. CAB International. iii) Hugh-Jones, M.E., Hubbert, W.T. and Hagstad, H.V. (1995). Zoonoses-Recognition, Control and Prevention, Iowa State University Press, Ames, Iowa, USA. iv) Sing, A. (2015). Zoonoses- Infections affecting humans and animals; Focus on Public Health Aspects, Springer Dordrecht.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS4141
<b>Course Title</b>	Aquaculture and Aquatic Animal Health
<b>No. of Credits</b>	3
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
i) To provide knowledge and skills on management of aquatic animal species including food and ornamental fish, shrimp and bivalves ii) To provide knowledge and skills on aetiopathology, diagnosis, treatment and prevention of common conditions affecting aquatic animal species	
<b>Intended Learning Outcomes:</b>	
At the end of the course the student will be able to; <ol style="list-style-type: none"> <li>i) discuss the national and global status of aquaculture in relation to socio-economic and nutritional aspects from a veterinary perspective,</li> <li>ii) perform and interpret the water quality tests and design a plan to improve the water quality for optimal performance of aquaculture,</li> <li>iii) describe the definition, principles and criteria for classification of aquaculture systems and the techniques of different aquaculture systems,</li> <li>iv) describe the veterinary importance on hatchery management, breeding methods, basic husbandry procedures, special management practices and market networks for food fish, shrimp, ornamental fish and bivalves,</li> <li>v) explain the concepts of records keeping, performance monitoring and financial evaluation of an aquaculture farm,</li> <li>vi) discuss the principles of aquatic animal health management, the status of fish diseases in Sri Lanka &amp; the world, &amp; health requirements applicable to import &amp; export of aquatic animals,</li> <li>vii) perform the field investigations for disease outbreaks in aquatic animals including pre-mortem and post-mortem procedures, collection, preservation and dispatch of samples for laboratory testing, and perform laboratory diagnostic methods, and</li> <li>viii) diagnose, treat (including use of pharmaceuticals and biologicals), control (including biosecurity measures) and prevent infectious and non-infectious diseases of fish and shrimp.</li> </ol>	
<b>Time Allocation (Hours):</b> Lectures 34; Practical 6; Clinical work 12; Field work 12; Independent learning 86	
<b>Course content/ Course description:</b>	
This course is offered in two modules. <b>Module I:</b> Aquaculture for veterinarians - aquaculture systems, important species and management practices in farming of shrimp, food fish, ornamental fish and bivalves; marketing, records keeping and financial performance; water quality management in aquaculture. <b>Module II:</b> Aquatic Animal Health Management - status of aquaculture diseases; health requirements for import and export; biosecurity in aquaculture farms; disease investigation, diagnosis, pathological procedures, treatment, control and prevention for infectious and non-infectious diseases of fish and shrimp; use of pharmaceuticals and biologicals in aquatic animal health management.	
<b>Recommended Texts:</b>	
i) Parker, R.O. (2012). Aquaculture Science (3 <sup>rd</sup> Ed.). Delmar Publication. ii) Lucas, J. (2013.). Aquaculture. Farming Aquatic Animals and Plants (2 <sup>nd</sup> Ed). Fishing News Books. iii) Noga, E.J. (2010). Fish diseases: Diagnosis and Treatment (2 <sup>nd</sup> Ed). Wiley-Blackwell.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS4142
<b>Course Title</b>	Farm Animal Production and Health III
<b>No. of Credits</b>	3
<b>Prerequisites</b>	VS3235
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
<ul style="list-style-type: none"> <li>i) To develop students' skills of diagnosis, treatment, control and prevention of disorders associated with the neuromuscular system, skin, eye, ear and other less common conditions of cattle, buffalo, goat and sheep.</li> <li>ii) To demonstrate and provide guided training on routinely encountered major surgical conditions.</li> </ul>	
<b>Intended Learning Outcomes:</b>	
At the completion of the course the student will be able to;	
<ul style="list-style-type: none"> <li>i) perform basic neurological examination and diagnose, treat, control and prevent neuromuscular disorders caused by common infectious and non-infectious etiologies,</li> <li>ii) diagnose and treat, and apply control measures to prevent common skin, ear and eye disorders,</li> <li>iii) diagnose trace mineral deficiencies and liver disease and design appropriate treatment protocols to manage those conditions,</li> <li>iv) apply different methods of assessing urinary system and differentiate causes for hematuria from hemoglobinuria and design and apply correct treatment and preventive measures,</li> <li>v) investigate disease outbreaks in pigs and diagnose, treat and control common diseases and conditions affecting pigs,</li> <li>vi) compare causes and predisposing factors for major injuries to farm animals in different farming systems,</li> <li>vii) diagnose common surgical conditions of different body systems and designs appropriate surgical interventions,</li> <li>viii) perform digit amputation, diagnose and treat common injuries to skeletal system,</li> <li>ix) identify common post-surgical complications and apply appropriate remedial methods and manage those properly, and</li> <li>x) identify and manage post-surgical pain in farm animals.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 30; Tutorials 3; Practical 12; Clinical work 18; Independent learning 87	
<b>Course content/ Course description:</b>	
Examination, diagnosis, treatment and control of common infectious and non-infectious disorders affecting nervous system, skin, eye and ear in farm animals; investigation of sudden deaths in individual or group of animals caused by different aetiologies; disorders of hepatic and urinary systems; syndrome associated with trace mineral deficiency/ excess; clinical examination of swine, diagnosis, treatment, control and prevention of common disorders; approaches to investigate disease outbreaks in a piggery; causes and predisposing factors and diagnosis of routinely encountered surgical conditions of farm animals: detection and management of post-surgical complications and pain in farm animals.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Parkinson, T.J, Vermunt, J.J. and Malmo, J. (2009.) Diseases of Cattle in Australasia. The New Zealand Veterinary Association Foundation for Continuing Education (VetLearn®)</li> <li>ii) Fubini, S.L. and DuCharme, N. (2004). Farm Animal Surgery (2<sup>nd</sup> Ed.), Published by Saunders.</li> <li>iii) Turner and Mcllwraith's (2013) Techniques in Large Animal Surgery (4<sup>th</sup> Ed.), Published Wiley-Blackwell.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	30
End-semester	70

<b>Course Code</b>	VS4143
<b>Course Title</b>	Companion Animal Health III
<b>No. of Credits</b>	3
<b>Prerequisites</b>	VS3236
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
<ul style="list-style-type: none"> <li>i) To explain and develop skills relating to disorders, therapeutics and surgical methods of the eye and ear.</li> <li>ii) To explain and develop skills in emergency and critical care of companion animals, cancer therapy and surgery, companion animal dentistry and shelter medicine.</li> </ul>	
<b>Intended Learning Outcomes:</b>	
At the completion of the course the student will be able to;	
<ul style="list-style-type: none"> <li>i) describe and recognize common disorders of the eye and ear, explain their underlying pathophysiological process, and conduct clinical examination diagnosis,</li> <li>ii) evaluate and explain the management of all emergency and critically ill patients, including fluid therapy and cardiopulmonary emergencies,</li> <li>iii) perform clinical examination diagnostic sampling, interpretation and diagnosis of common oncologic/ cancer disorders to provide treatment options for patients with cancer disorders under the supervision of a senior clinician,</li> <li>iv) explain pathophysiological basis of common dental problems in dogs and cats and to perform necessary diagnostic procedures and assist in surgical treatments for these patients under the supervision of a senior clinician,</li> <li>v) appreciate the major concepts of shelter medicine program and integrate concepts of animal welfare and understand the role of veterinarian to assist field level dog population control program under the supervision of a senior clinician, and</li> <li>vi) undertake treatment of patients under supervision. Demonstrate basic surgical skills by participating in the surgical and post-operative care of surgical cases of the eye and ear.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 35; Demonstrations (clinical) 10; Independent learning 105	
<b>Course content/Course description:</b>	
Clinical examination of the eye, ear and associated structures (including taking a relevant history); common medical and surgical procedures of the eye, ear and associated structures; management of critical care and emergency patients, triage, primary and secondary survey; therapeutic and monitoring plans and life saving measures; fluid therapy in critically-ill patients; antimicrobial therapy; mechanisms of oncogenesis and metastasis; principles of chemotherapy, surgery and radiation therapy of neoplasia; periodontal diseases, descaling and tooth extraction; introduction to shelter medicine and the control of stray animals; processes and limitations of field-level desexing programs.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Ettinger, S. J. &amp; Feldman, E. C. (2009). <i>Textbook of Veterinary Internal Medicine (7<sup>th</sup> Ed.)</i>. Elsevier Health Sciences.</li> <li>ii) Nelson, R. W. &amp; Couto, C. G. (2014). <i>Small Animal Internal Medicine-E-Book</i>. Elsevier Health Sciences.</li> <li>iii) Clarke, K. W. &amp; Trim, C. M. (2013). <i>Veterinary Anaesthesia E-Book</i>. Elsevier Health Sciences.</li> <li>iv) Denny, H. &amp; Butterworth, S. (2008). <i>A guide to Canine and Feline Orthopaedic Surgery</i>. John Wiley &amp; Sons.</li> <li>v) Betts, C. W. &amp; Crane, S. W. (1986). <i>Manual of Small Animal Surgical Therapeutics</i>. ChurchillLivingstone.</li> <li>vi) Lipowitz, A. J., Caywood, D. D., Newton, C. D. &amp; Schwartz, A. (1996). <i>Complications in Small Animal surgery: Diagnosis, Management, Prevention</i>. Williams &amp; Wilkins.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS4144
<b>Course Title</b>	Research Project II
<b>No. of Credits</b>	3
<b>Prerequisites</b>	VS3238
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To develop students' skills to address scientific problems/ research questions by designing, collecting, critically analyzing and evaluating appropriate qualitative and quantitative information.	
<b>Intended Learning Outcomes:</b> At the completion of the course the student will be able to; <ul style="list-style-type: none"> <li>i) investigate scientific problems/ research questions by collecting, analysing and evaluating appropriate qualitative and quantitative information,</li> <li>ii) demonstrate knowledge of and experience in research planning and effective research management,</li> <li>iii) review the quality of research design,</li> <li>iv) argue logically and think critically within the parameters of an academic discipline,</li> <li>v) demonstrate independent learning skills necessary for the foundation of lifelong learning, and</li> <li>vi) display the competencies, key skills, behaviour and attitudes in relation to individual and group work required in a professional working life.</li> </ul>	
<b>Time Allocation (Hours):</b> Research Project 270	
<b>Course content/ Course description:</b> Collecting, recording, tabulating, analysing and evaluating appropriate qualitative and quantitative data with appropriate statistical tools, under the supervision of at least one appropriate academic staff of FVMAS.	
<b>Recommended Texts:</b> <ul style="list-style-type: none"> <li>i) Creswell, J. W. (2013). <i>Research Design: Qualitative, Quantitative, and Mixed Methods Approaches</i> (4<sup>th</sup> Ed), SAGE Publications. Inc. California, USA.</li> <li>ii) Dawson, C. (2009). <i>Introduction to research methods: A Practical Guide for Anyone Undertaking a Research Project</i> (4<sup>th</sup> Ed), How To Books Ltd. Oxford,UK.</li> <li>iii) Booth, W. C., Colomb, G. G. and Williams, J. M. (2008). <i>The Craft of Research</i> (3<sup>rd</sup> Ed), University of Chicago Press. Chicago,USA.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	30
End-semester	70

<b>Course Code</b>	VS4145
<b>Course Title</b>	Integrated Veterinary Sciences VII
<b>No. of Credits</b>	1
<b>Prerequisites</b>	VS3239
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To further improve students' critical analytical and problem solving skills by making them dissect real-world problems of multidisciplinary nature, and by doing so, (i) to develop their ability to integrate knowledge, skills and attitudes gained from foundation sciences with those gained from veterinary clinical/animal production sciences learned through Y1S1 to Y4S1, and (ii) prepare them for the clinical-heavy final year of the study program	
<b>Intended Learning Outcomes:</b> At the end of the course, the student will be able to; <ul style="list-style-type: none"> <li>i) demonstrate progression of critical thinking skills from VS3239,</li> <li>ii) synthesize and integrate material from concurrent and previous subjects to evaluate provided scenarios and to create problem lists,</li> <li>iii) develop the problem list into a clearly defined set of test able hypotheses based on factors that may include clinical presentation, pathophysiological understanding, compilations of data, field reports, or clinical records,</li> <li>iv) direct the collection of additional data by means such as clinical tests or similar alternatives to refine the problem to a single demonstrated hypothesis,</li> <li>v) formulate an action plan appropriate to the final hypothesis and draw upon a wide variety of information sources to postulate its likely outcome,</li> <li>vi) display sustained development of a range of professional skills that includes inter-personal skills, team/ collaborative work, communication skills, ICT skills and problem-solving skills,</li> <li>vii) evaluate the challenges, opportunities, and trends (both local and global) in the field of Veterinary Medicine and Animal Science,</li> <li>viii) display intellectual curiosity by finding, managing and applying information from a wide range of sources, and</li> <li>ix) display sound professional judgment, with consideration for appropriate ethical, moral and legal principles.</li> </ul>	
<b>Time Allocation (Hours):</b> In-class assignments 30; Independent learning 20	
<b>Course content/ Course description:</b> The Integrated Veterinary Sciences stem will use a student-centered Problem Based Learning (PBL) approach. Students will be presented with health and/or management-related problems that will require them to integrate topics covered to-date, with reference to the pathophysiology, diagnosis and management of disease through the integration of para-clinical disciplines with clinical and animal production sciences. Course teachers will facilitate students' comprehension of each case scenarios by making connections between course-material and additional information obtained through reading. Students will be expected to develop and practice interpersonal, communication and team working skills and to express appropriate professional behaviour.	
<b>Recommended Texts:</b> Recommended review articles and electronic resources including videos relevant to the respective scenario/problem will be prescribed during the delivery of the course.	
<b>Assessment:</b>	<b>Percentage Mark</b>
In-course	75
End-semester	25

<b>Course Code</b>	VS4246
<b>Course Title</b>	Veterinary Public Health II
<b>No. of Credits</b>	2
<b>Prerequisites</b>	VS4140
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
To impart knowledge and understanding on legislation and standards pertaining to local & international trade of animal products, and safety and quality assessment of food of animal origin, and water.	
<b>Intended Learning Outcomes:</b>	
At the completion of the course the student will be able to;	
<ul style="list-style-type: none"> <li>i) explain local and international legislation and standards applicable to trade of animal products,</li> <li>ii) explain the role of veterinarian in producing safe animal originated food complying to quality standards from farm to table,</li> <li>iii) explain methods and practices to minimize biological, chemical and physical hazards associated with food of animal origin,</li> <li>iv) explain methods and practices of producing safe and quality milk and dairy products,</li> <li>v) evaluate abattoir layouts in terms of waste disposal and environmental safety measures to ensure animal welfare, meat safety, meat quality and occupational safety,</li> <li>vi) perform ante-mortem inspection of animals and post-mortem inspection of meat, and</li> <li>vii) explain good husbandry practices in relation to safety and quality of meat, table eggs and aquatic animal species to ensure consumer safety.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 19; Tutorials 2; Practical 10; Field work 12; Independent learning 57	
<b>Course content/ Course description:</b>	
Legislation and standards pertaining to trade of animal products in domestic and international markets; role of the veterinarian in producing safe food, including ante-and post-mortem inspection of animals/ meat; food-related hazards to human health, including microbiological, chemical and water-borne hazards, zoonoses, residues of therapeutic substance; principles of quality assurance, including the concept of HACCP; safe production of dairy products, meat, eggs and edible aquatic animal species; abattoir design for animal welfare and hygienic production of meat.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Inteaz, A. (2016). Food Quality Assurance: Principles and Practices. CRC Press, FL, USA.</li> <li>ii) Ramesh C. Chandan, Arun, K. and Nagendra P. S. (2016). Dairy Processing and Quality Assurance (2<sup>nd</sup>Ed.). Wiley-Blackwell, UK.</li> <li>iii) Krissoff, B., Bohman, M. &amp; Caswell, J. (Eds.) (2002) Global Food Trade and Consumer Demand for Quality. Kluwer Academic/Plenum Publishers, New York.</li> <li>iv) Jhari, S. &amp; Manish, K.C. (2015). Meat, Poultry and Fish Technology. Daya Publishing House, New Delhi, India.</li> <li>v) Buncic, S. (2006). Integrated Food Safety and Veterinary Public Health. CABI, Wallingford, Oxfordshire, OX 10 8DE, UK.</li> <li>vi) Toldra, F. (2010). Handbook of Meat Processing. John Wiley and sons, 2121, State Avenue, Ames, Iowa, USA</li> </ul>	
<b>Assessment</b>	<b>Percentage of mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS4247
<b>Course Title</b>	Poultry Pathology and Health
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To provide training on aetiopathology, diagnosis, treatment, prevention and control of common diseases of poultry, game and pet birds in Sri Lanka.	
<b>Intended Learning Outcomes:</b> At the end of the course the student will be able to;	
<ul style="list-style-type: none"> <li>i) discuss the current status of economically significant poultry diseases and economic consequences of emerging and re-emerging diseases,</li> <li>ii) describe the aetiology, pathogenesis, and clinical manifestations of common diseases affecting poultry, pet and gamebirds,</li> <li>iii) diagnose common diseases affecting poultry, including by using clinical pathology and necropsy,</li> <li>iv) design appropriate strategies to treat, control and prevent poultry diseases,</li> <li>v) evaluate bio-security level in a poultry farm and prepare and communicate biosecurity plan for the farmer,</li> <li>vi) discuss the consequences of indiscriminate use of antibiotics and other pharmaceuticals and biologicals in poultry sector, and</li> <li>vii) describe the national programs adopted to eradicate the poultry diseases in Sri Lanka.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 20; In-class assignments 10; Practical 10; Independent learning 60	
<b>Course content/Course description:</b> Current status of poultry health; disease investigation procedures including bird necropsy and gross lesion identification, sample collection, dispatch and preservation; application of biosecurity measures to poultry farms; national program to eradicate poultry disease; diagnosis, treatment, control and prevention of commonly occurring poultry diseases, including nutritional, and infectious causes; risk and response program for emerging diseases; diseases of grandparents; vaccination; use of antibiotics and control program in Sri Lanka.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Swayne, D. E. (2013). <i>Diseases of Poultry</i> (13<sup>th</sup> Ed.). Wiley-Blackwell, USA.</li> <li>ii) Jordan, F. (2007). <i>Poultry Diseases</i> (6<sup>th</sup> Ed.). Saunders.</li> <li>iii) Saif, Y.M. (2003). <i>Diseases of Poultry</i> (11<sup>th</sup> Ed.). Iowa State University Press, Ames, Iowa.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	30
End-semester	70

<b>Course Code</b>	VS4248
<b>Course Title</b>	Equine Health and Management
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To train students on (i) basic horse management practices, (ii) disorders affecting horses, and (iii) reproductive management of equids.	
<b>Intended Learning Outcomes:</b> At the completion of the course student will be able to; i) discuss feeds and feeding, breeding and basic health management practices related to equine practice, ii) describe the procedure for pre-purchase examination of horse/ pony, iii) perform appropriate handling and restraining procedures, general and special clinical examination procedures of horses, and administer medicines through different routes, iv) diagnose, treat and manage range of common medical and surgical conditions of horses, v) appraise the circumstances under which direction from more experienced colleagues, including referral for further treatment should besought, vi) assess and apply correct treatment protocols to manage wounds, vii) diagnose common causes of lameness, and viii) explain management of the reproductive cycle of the mare and the pregnant mare; and the diagnosis, treatment, and management of common reproductive disorders in horses.	
<b>Time Allocation (Hours):</b> Lectures 20; In-class assignments: 6; Practical 6; Clinical work 12; Independent learning 56	
<b>Course content/ Course description:</b> Equinenutrition-feedsandfeeding;basichealthmanagement,ageing,identificationandhandling.Pre-purchase examination; general and special clinical examination; diagnosis, formulation of medical and surgical treatment, management and prevention plans for range of common disorders affecting musculoskeletal, gastrointestinal, respiratory, urinary, neurologic, ophthalmic and integumentary (including wounds) systems; treatment and prevention of common disorders of foals; management of reproduction, natural and artificial breeding, pregnancy diagnosis; common causes of infertility; dystocia, post-partum conditions.	
<b>Recommended Texts:</b> i) Tim Mair, Sandy Love, James Schumacher, Roger KW Smith, and Grant Frazer (2012). Equine Medicine, Surgery and Reproduction, (2nd Ed.) Published by Saunders LTD. ii) Stephen, M Reed, Warwick, M Bayly and Debra, C. Sellon (2010). Equine Internal Medicine, (3 <sup>rd</sup> Ed). Published by Saunders LTD iii) Garry, C.W. England (2005). Fertility and Obstetrics in the Horse, (3rd Ed). Published by Blackwell Publishing	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS4249
<b>Course Title</b>	Wild Animal Health and Management
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
<ul style="list-style-type: none"> <li>i) To provide training on restraint and diagnosis, treatment and management of common clinical and surgical conditions of zoo and wild animals under field and hospital conditions.</li> <li>ii) To discuss principles of management and conservation of zoo and wild animals from a veterinary perspective.</li> </ul>	
<b>Intended Learning Outcomes:</b>	
At the completion of the course, the student will be able to,	
<ul style="list-style-type: none"> <li>i) discuss the principles of wildlife conservation and conservation strategies, legislations pertaining to wildlife conservation in Sri Lanka and the role of veterinarian in wildlife management and conservation,</li> <li>ii) apply the knowledge, understanding and skills about the physical, mechanical and chemical restraints of selected species of free living and captive wild animals,</li> <li>iii) perform general clinical examination, diagnostic sample collection on selected species of captive and free-living wild animals,</li> <li>iv) recognize, report and intervene in emergency requiring provision of critical care of wild animal patients,</li> <li>v) demonstrate the ability to diagnose, treat and design a management plan for common diseases and disorders of captive and free-living reptiles, avian and wild mammals,</li> <li>vi) explain the general concepts of rescue and rehabilitation of wild animals,</li> <li>vii) apply the ‘one-health’ concept to handling emerging infectious diseases of human, domestic animal and in domestic and wild animal interface, and</li> <li>viii) explain the importance of disease investigation in free living wild animals.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 20; Demonstrations (clinical) 6; Field work 12; Independent learning 62	
<b>Course content/ Course description:</b>	
Veterinarian and wildlife; biodiversity Sri Lanka; principles of wildlife conservation and management; concepts of handling and restraining of zoo and wild animals, including special techniques for elephants; clinical examination, chemical restraint and anaesthesia of zoo and wild animals. Clinical methods, therapeutics, emergency and critical care, common clinical and surgical conditions, in zoo and wild animal practice; nutritional management in captive wild animals; rescue / rehabilitation and release of wild animals; one health concept and investigation of diseases in free living animals.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Fowler, M. E. (2008). <i>Restraint and Handling of Wild and Domestic Animals (3<sup>rd</sup> Ed.)</i>. Wiley-Blackwell.</li> <li>ii) Fowler, M. E. &amp; Mikota, S.K. (2006). <i>Biology, Medicine and Surgery of Elephants</i>, Wiley-Blackwell.</li> <li>iii) Mader, D.R. (2006). <i>Reptile Medicine and Surgery (2<sup>nd</sup> Ed.)</i>. ElsevierInc.</li> <li>iv) Meredith, A. &amp; Flecknell, P. (2006). <i>BSAVA Manual of Rabbit Medicine. (2<sup>nd</sup>Ed.)</i>, BSAVA.</li> <li>v) Mullineaux, E, Best, D. &amp; Cooper, J. (2003). <i>BSAVA Manual of Wildlife Casualties</i>. BSAVA.</li> <li>vi) Meredith, A. &amp; Delaney, C. J. (2010). <i>BSAVA Manual of Exotic Pets (5<sup>th</sup> Ed.)</i>. BSAVA.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS4250
<b>Course Title</b>	Principles of Business Management
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To introduce basic business and management concepts to enable veterinary undergraduates to develop relevant business and management related attitudes/ mindset and skills they will need upon graduation.	
<b>Intended Learning Outcomes:</b> At the end of the course the students will be able to; <ul style="list-style-type: none"> <li>i) define relevant key terms associated with business, general management, human resource management, and marketing management,</li> <li>ii) identify and describe management functions, types, roles and skills along with their importance to organizational performance,</li> <li>iii) identify key components of the organizational environment and explain their relationship with the organizational performance,</li> <li>iv) describe the basic concepts and principles of marketing management and explain their relevance to organizational performance,</li> <li>v) describe the basic concepts and principles of human resource management and explain their relevance to organizational performance,</li> <li>vi) explain the criteria for ethical decision making, approaches for evaluating ethical behaviour and the criteria of corporate social responsibility, and</li> <li>vii) demonstrate the ability to relate the theoretical concepts to analyze a given business and management situation in order to enhance organizational performance.</li> </ul>	
<b>Time Allocation (Hours):</b> Lectures 20; In-class assignments: 10; Practical 10; Independent learning 60	
<b>Course content/ Course description:</b> This course consists of four modules. <b>Module I: Introduction to business</b> - Definitions, goods producing versus service businesses, business environment and its relationship with business success, types of business orientations, systems and contingency theories of business. <b>Module II: Principles of General Management</b> –Definition of management, management functions (i.e. Planning, organizing, leading and controlling), management levels, management skills, roles, management ethics/ ethical behaviour and corporate social responsibility (CSR) along with their importance to organizational performance. <b>Module III: Principles of Human Resource Management</b> - Overview of the major areas of HRM that includes Job analysis, recruitment & selection, performance management and appraisal, training and development, rewards and remuneration, and strategic human resource management. <b>Module III: Principles of Marketing Management</b> - Overview of the major areas of the marketing exchange process that covers understanding customer needs & wants, and creating, communicating & delivering customer perceived values with the aim to enhancing the customer lifetime values and the customer equity.	
<b>Recommended Texts:</b> <ul style="list-style-type: none"> <li>i) Robbins, S.P. &amp; Coulter, M. (2018). Management (14<sup>th</sup>Ed.). Pearson.</li> <li>ii) Kotler, P. &amp; Armstrong, G. (2015). Principles of Marketing (16<sup>th</sup> Ed.). Pearson.</li> <li>iii) Snell, S. &amp; Bolander, G. ((2013). Human Resource Management (16<sup>th</sup> Ed.). Cengage Learning.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	50
End-semester	50

<b>Course Code</b>	VS4251
<b>Course Title</b>	Veterinary Extension
<b>No. of Credits</b>	2
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To provide basic understanding on key terms and principles of veterinary extension, and its applications.	
<b>Intended Learning Outcomes:</b> At the end of the course, students will be able to; i) define relevant key terms associated with rural advisory and extension discipline, ii) describe the basic principles of extension and explain their relevance to improve performance of livestock farming, iii) describe the organizational set up of advisory and extension services in relation to veterinary services and livestock management, iv) explain the strategies and tools used in veterinary extension services, and v) describe the main roles and responsibilities of extension professionals.	
<b>Time Allocation (Hours):</b> Lectures 25; Field work 15; Independent learning 60	
<b>Course content/ Course description:</b> This course consists of three modules: <b>Module I: Introduction to advisory and extension concepts and models</b> - This module identifies the type of extension services available in the country and their relevance to the veterinary extension programs. <b>Module II: Principles and their applications of education and communication</b> –This module provides the knowledge on application of veterinary extension services under different field conditions. <b>Module III: Application of extension</b> – This module critically analyses case studies of different veterinary extension experiences in the field.	
<b>Recommended Texts:</b> i) University of Pennsylvania, School of Veterinary Medicine (2012). Veterinary extension quarterly (Issues 1-44). (ISBN-10: 1286740029) ii) Singh, R., & Mandal, M. K. (2016). Extension education management in veterinary sciences and animal husbandry. Extension education management in veterinary sciences and animal husbandry. (ISBN: 9789385516054) iii) Özçatalbaş, O., 2014. Extension and Innovations: Diffusion of Innovations, Agricultural Extension and Consultancy: Volume-I, Chapter:7, Publisher: Gaziosmanpaşa University Publication No:2, Tokat, Turkey, Editors: M. Sayılı, E. Oruç, H. Günal, H. Önen, pp.121- 136. ISBN: 9789757328582	
<b>Assessment:</b>	<b>Percentage Mark</b>
In-course:	50
End-semester	50

<b>Course Code</b>	VS4252
<b>Course Title</b>	Research Project III
<b>No. of Credits</b>	2
<b>Prerequisites</b>	VS4144
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
i) To provide basic tools for and understanding of research integrity and scientific writing while further developing skills for planning and managing a research project.	
ii) To develop skills to effectively communicate research findings while preparing them for further education, training, and work.	
<b>Intended Learning Outcomes:</b>	
At the completion of the course the student will be able to;	
i) demonstrate knowledge of and experience in research planning, conduct and analysis,	
ii) incorporate analyzed data into assigned writing clearly, concisely, and logically; and attribute the source with proper citation,	
iii) organize and compose a scientific paper in accordance with the IMRAD model, including effective incorporation of analyzed data,	
iv) make an effective oral presentation of the research finding,	
v) demonstrate independent learning skills necessary for the foundation of lifelong learning, and	
vi) display the competencies, key skills, behaviour and attitudes in relation to individual and group work required in a professional working life.	
<b>Time Allocation (Hours):</b> Lectures 5; Practical 5; Research Project 135	
<b>Course content/ Course description:</b>	
Research project commenced during VMEU 4144 (Research Project II) will continue with further collecting, recording, tabulating, analysing and evaluating appropriate qualitative and quantitative data with appropriate statistical tools, under supervision. In addition, a module on scientific writing and presentations: scientific writing process and its key stages, organizing and composing a scientific paper in accordance with the IMRAD ( <i>Introduction, Methods, Results and Discussion</i> ) model, analyze and review scientific papers, rules of co- authorship, ethics in scientific writing and correct presentation of references as well as oral presentation skills would be taught.	
<b>Recommended Texts:</b>	
i) Schimel, J. (2011). <i>Writing Science: How to Write Papers That Get Cited and Proposals That Get Funded (1<sup>st</sup> Ed.)</i> . Oxford University Press, NY, USA.	
ii) Lindsay, D. (2011). <i>Scientific Writing = Thinking in Words</i> . CSIRO Publishing, Australia.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	30
End-semester	70

<b>Course Code</b>	VS4253
<b>Course Title</b>	Integrated Veterinary Sciences VIII
<b>No. of Credits</b>	1
<b>Prerequisites</b>	VS4145
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To further improve students' critical analytical and problem solving skills by exposing them to complex, real- world scenarios of multidisciplinary nature, and by doing so, (i) to further develop their ability to integrate knowledge, skills and attitudes gained from different courses learned through Y1S1 to Y4S2, and (ii) to prepare them to enter the clinical-heavy final year of the study program with a thorough understanding of how foundation-sciences relate to applied veterinary clinical/ animal production sciences	
<b>Intended Learning Outcomes:</b> At the end of the course, the student will be able to;	
<ul style="list-style-type: none"> <li>i) demonstrate progression of critical thinking skills from VS4145,</li> <li>ii) synthesize and integrate material from concurrent and previous subjects to evaluate provided scenarios and to create problem lists,</li> <li>iii) develop the problem list into a clearly defined set of testable hypotheses based on factors that may include clinical presentation, pathophysiological understanding, compilations of data, field reports, or clinical records,</li> <li>iv) direct the collection of additional data by means such as clinical tests or similar alternatives to refine the problem to a single demonstrated hypothesis,</li> <li>v) formulate an action plan appropriate to the final hypothesis and draw upon a wide variety of information sources to postulate its likely outcome,</li> <li>vi) display sustained development of a range of professional skills that includes inter-personal skills, team/ collaborative work, communication skills, ICT skills and problem-solving skills,</li> <li>vii) evaluate the challenges, opportunities, and trends (both local and global) in the field of Veterinary Medicine and Animal Science,</li> <li>viii) display intellectual curiosity by finding, managing and applying information from a wide range of sources,</li> <li>ix) display sound professional judgement, with consideration for appropriate ethical, moral and legal principles, and</li> <li>x) describe economic, management and business aspects of commercial veterinary practice.</li> </ul>	
<b>Time Allocation (Hours):</b> In-class assignments 30; Independent learning 20	
<b>Course content/ Course description:</b> The Integrated Veterinary Sciences stem will use a student-centered Problem Based Learning (PBL) approach. Students will be presented with health and/or management-related problems that will require them to integrate topics covered to-date, with emphasis upon developing the clinical and professional abilities of students, including the development of diagnostic reasoning skills. Course teachers will facilitate students' comprehension of each case scenarios by making connections between course-material and additional information obtained through reading. Students will be expected to develop and practice interpersonal, communication and team working skills and to express appropriate professional behaviour.	
<b>Recommended Texts:</b> Recommended review articles and electronic resources including videos relevant to the respective scenario/problem will be prescribed during the delivery of the course.	
<b>Assessment:</b>	<b>Percentage Mark</b>
In-course:	75
End-semester	25

<b>Course Code</b>	VS5154
<b>Course Title</b>	Animal Clinics I
<b>No. of Credits</b>	8
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b>	
To provide students the opportunity to gain experience in clinical practice with respect to farm animals & equids.	
<b>Intended Learning Outcomes:</b>	
At the end of course, students will be able to demonstrate;	
i) clinical skills in handling, restraining, examining, and conducting routine technical procedures on farm animals in a manner that is safe for the animal and the operator,	
ii) systematic problem-solving skills with consideration of differential diagnoses and use of appropriate and cost-effective diagnostic aids to facilitate arriving at a confirmatory diagnosis of common medical and surgical conditions of farm animals,	
iii) competence in treatment and management of common medical conditions of farm animals and equids considering cost-effective treatment option and competence in application of basic principles of therapeutic agents as they pertain to farm animal and equine practice,	
iv) ability to participate in common surgical interventions of farm animals and equids with consideration on cost- effectiveness of the surgery,	
v) ability to conduct a systematic and rational approach to the investigation, management, control and prevention of diseases and disorders at the herd level by analysing relevant clinical, pathological and epidemiological data,	
vi) competence in application of the principles for improving farm production and ability to practice personal biosecurity measures at farm level,	
vii) explain and apply the relationship of nutrition and management with diseases and disorders in farm animals and equids,	
viii) ability to communicate effectively with clients about medical/ surgical management of common disorders of farm animals and equids,	
ix) professional approach to ethical issues, including circumstances under which a patient should be referred to a specialist facility, and	
x) ability to assess the need for, and undertaking, euthanasia, effectively and humanely, in consideration of the wellbeing of the animal and to reduce economic loss to the farmer.	
<b>Time Allocation (Hours):</b>	
Demonstrations (Clinical) 30; Clinical Work 225; Clinicals (by observation) 60; Independent learning 85	
<b>Course content/ Course description:</b>	
The course consists of 4 compulsory <u>two-week</u> clinical rosters in farm animals and horses. The rosters are: (i) Ambulatory Large Animal Clinic Roster, (ii) Large Animal Reproduction and Equine Roster, (iii) Poultry and Pig Roster, and (iv) Necropsy and Abattoir roster. During these rosters, students will be working under the guidance and supervision of clinicians and develop skills in history taking, clinical examination, listing differential diagnosis, obtaining samples for laboratory diagnosis, participating in diagnostic imaging procedures, interpreting results, arriving at diagnosis, managing hospitalized patients and prescribing/ administering medication. They will also gain experience in interacting with clients, teamwork with professional people, develop competency in record keeping and expected to develop and display a high standard of professional attributes.	
<b>Recommended Texts:</b>	
i) Parkinson, T.J., Vermunt, J.J. & Malmo, J. (2009). Diseases of Cattle in Australasia. The New Zealand Veterinary Association Foundation for Continuing Education (VetLearn®).	
ii) Jackson, P. G.G. & Cockcroft, P. D. (2007). Handbook of Pig Medicine. Saunders.	
iii) DuCharme, N. & Fubini, S.L. (2004). Farm Animal Surgery (2 <sup>nd</sup> Ed.). Saunders.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	40
End-semester	60

<b>Course Code</b>	VS5155
<b>Course Title</b>	Companion and Wild Animal Clinics 1
<b>No. of Credits</b>	8
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To provide students the opportunity to gain experience in clinical practice with respect to companion animal medicine and surgery, and wildlife health and management.	
<b>Intended Learning Outcomes:</b> At the end of course, students should be able to demonstrate; <ul style="list-style-type: none"> <li>i) competency in handling a clinical case, taking history, conducting general and special clinical examinations, and formulating a list of differential diagnoses,</li> <li>ii) ability to collect samples and request the relevant diagnostic techniques / tests and interpret the results for establishing a confirmatory diagnosis, and rationalizing the treatment / management plan,</li> <li>iii) ability to correctly and legally prescribe and dispense therapeutic agents,</li> <li>iv) skills in case management, including the ability to apply safe, effective treatment and care and adequate pain management,</li> <li>v) ability to manage critical and intensive care patients to a standard appropriate to a Day One graduate,</li> <li>vi) the ability to perform routine veterinary surgical procedures (including post-operative management),</li> <li>vii) work ethics, professionalism and communication skills, whilst interacting with clients, veterinary professionals, support staff and fellow students, and</li> <li>viii) the ability to undertake self-directed learning.</li> </ul>	
<b>Time Allocation (Hours):</b> Demonstrations (Clinical) 30; Clinical Work 225; Clinicals (by observation) 60; Independent learning 85	
<b>Course content/ Course description:</b> The course consists of 4 compulsory two-week clinical rosters. <ul style="list-style-type: none"> <li>i) Companion Animal Clinical Medicine</li> <li>ii) Companion Animal Clinical Surgery</li> <li>iii) Wildlife and Companion Animal Wards</li> <li>iv) Companion Animal Ancillary (Pharmacy and Diagnostic Laboratory, Continuous Monitoring Unit (CMU) and Emergency Critical Care)</li> </ul> During these rosters, students will be working under the guidance and supervision of clinicians and develop skills in history taking, clinical examination, listing deferential diagnosis, obtaining samples for laboratory diagnosis, participating in diagnostic imaging procedures, interpreting results, arriving at diagnosis, managing hospitalized patients and prescribing/ administering medication. They will also gain experience in interacting with clients, teamwork with professional people, develop competency in record keeping and expected to develop and display a high standard of professional attributes.	
<b>Recommended Texts:</b> <ul style="list-style-type: none"> <li>i) Slatter, D. H. (Ed.). (2003). <i>Textbook of small animal surgery</i> (Vol. 1). Elsevier Health Sciences.</li> <li>ii) Ettinger, S. J. &amp; Feldman, E. C. (2009). <i>Textbook of Veterinary Internal Medicine-eBook</i>. Elsevier health sciences.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	50
End-semester	50

<b>Course Code</b>	VS5256
<b>Course Title</b>	Farm Animal Clinics II
<b>No. of Credits</b>	4
<b>Prerequisites</b>	VS5154
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To prepare students for entry to the veterinary profession by further developing their professional and clinical skills related to farm animals and horses.	
<b>Intended Learning Outcomes:</b> At the end of course, students will be able to demonstrate;	
<ul style="list-style-type: none"> <li>i) clinical skills in handling, restraining, examining, and conducting routine veterinary procedures in a manner that is safe for the animal and operator,</li> <li>ii) the ability to design appropriate, comprehensive treatment plans for hospitalized and field clinical cases,</li> <li>iii) the ability to correctly and legally prescribe and dispense therapeutic agents; including minimizing the risk of the development of antimicrobial resistance,</li> <li>iv) a systematic and rational approach to investigating diseases and disorders at the herd level, and formulating appropriate management, control and prevention measures based upon this information,</li> <li>v) the ability to formulate preventive health care plans, which place appropriate emphasis on biosecurity, contagious and zoonotic diseases,</li> <li>vi) maintenance of suitable clinical records,</li> <li>vii) the ability to recognize pain and formulate suitable pain management strategies to ensure welfare of farm animals and horses,</li> <li>viii) the ability to collect appropriate samples from live and dead animals; dispatch them to a diagnostic laboratory; select appropriate diagnostic tests; correctly interpret the results,</li> <li>ix) the ability to perform post-mortem examination under field or hospital conditions,</li> <li>x) the ability to assess the need for, and undertake, euthanasia, effectively and humanely in consideration of the wellbeing of the animal and the wishes of the owner,</li> <li>xi) the ability apply safe practice of personal biosecurity measures appropriate to the clinical setting,</li> <li>xii) a high standard of personal, ethical and professional behavior. This includes interactions with the public, clients and their animals; interactions with practicing veterinarians and support staff; and awareness of circumstances under which a patient should be referred to a specialist facility, and</li> <li>xiii) the ability to take responsibility for personal safety, as well as that of clients and their animals.</li> </ul>	
<b>Time Allocation (Hours):</b> Demonstrations (Clinical) 15; Clinical Work 113; Clinicals (by observation) 30; Independent learning 42	
<b>Course content/Course description:</b> The course consists of 4 compulsory one-week clinical rosters and include ambulatory clinical services, reproduction, equine/ swine and necropsy/ abattoir services.	
<b>Recommended Texts:</b>	
<ul style="list-style-type: none"> <li>i) Parkinson, T.J., Vermunt, J.J. and Malmo, J. (2009). Diseases of Cattle in Australasia. The New Zealand Veterinary Association Foundation for Continuing Education (VetLearn®).</li> <li>ii) Noakes, D. E., Parkinson, T.J., England, G.C.W. &amp; Arthur, G.H. (2009). Arthur's Veterinary Reproduction and Obstetrics (8<sup>th</sup> Ed.). Elsevier.</li> <li>iii) Mair, T., Love, S., Schumacher, J., Smith, R. K.W. &amp; Frazer, G. (2012). Equine Medicine, Surgery and Reproduction (2<sup>nd</sup> Ed.). Saunders.</li> </ul>	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	50
End-semester	50

<b>Course Code</b>	VS5257
<b>Course Title</b>	Companion and Wild Animal Clinics II
<b>No. of Credits</b>	4
<b>Prerequisites</b>	VS5155
<b>Compulsory/ Optional</b>	Compulsory
<b>Aim(s):</b> To prepare students for entry to the veterinary profession by further developing their professional and clinical skills related to companion and wild animals.	
<b>Intended Learning Outcomes:</b> At the end of course, students will be able to demonstrate; i) clinical skills in handling, restraining, examining, and conducting routine veterinary procedures on companion animals and wildlife in a manner that is safe for the animal and operator, ii) systematic problem-solving skills to manage clinical cases from admission to discharge, iii) the ability to design appropriate, comprehensive treatment plans for hospitalised and outpatients, iv) the ability to correctly and legally prescribe and dispense therapeutic agents; including minimizing the risk of the development of antimicrobial resistance, v) the ability to formulate preventive health care plans, which place appropriate emphasis on biosecurity, contagious and zoonotic diseases, vi) maintenance of suitable clinical records, vii) the ability to recognize pain and formulate suitable pain management strategies to ensure welfare of patients, viii) the ability to collect appropriate samples from live and dead animals; dispatch them to a diagnostic laboratory; select appropriate diagnostic tests; correctly interpret the results, ix) the ability to perform postmortem examination of companion and wild animals, x) the ability to assess the need for, and undertake, euthanasia, effectively and humanely in consideration of the well-being of the animal and the wishes of the owner, xi) safe practice of personal biosecurity measures appropriate to the clinical setting, xii) a high standard of personal, ethical and professional behavior. This includes interactions with the public, clients and their animals; interactions with practicing veterinarians and support staff; and awareness of circumstances under which a patient should be referred to a specialist facility, and xiii) taking responsibility for personal safety, as well as that of clients and their animals.	
<b>Time Allocation (Hours):</b> Demonstrations (Clinical) 15; Clinical Work 113; Clinicals (by observation) 30; Independent learning 42	
<b>Course content/Course description:</b> The course consists of 4 compulsory one-week clinical rosters. The rosters will be: i) Companion Animal Clinical Medicine ii) Companion Animal Clinical Surgery iii) Wildlife and Companion Animal Wards iv) Companion Animal Ancillary [Pharmacy and Diagnostic Laboratory, Continuous Monitoring Unit (CMU) and Emergency Critical Care] During these rosters, students will develop competency in handling companion and wildlife clinical cases seen in primary accession, take responsibility for managing hospitalized patients, develop competency in effective verbal and written communication with clients and work in groups of related professional people while developing a high standard of professional attributes.	
<b>Recommended Texts:</b> i) Slatter, D. H. (Ed.). (2003). <i>Textbook of Small Animal Surgery</i> (Vol. 1). Elsevier Health Sciences. ii) Ettinger, S. J. & Feldman, E. C. (2009). <i>Textbook of Veterinary Internal Medicine-eBook</i> . Elsevier Health Sciences.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	50
End-semester	50

<b>Course Code</b>	VS5258
<b>Course Title</b>	Externships
<b>No. of Credits</b>	8
<b>Prerequisites</b>	None
<b>Compulsory/ Optional</b>	Compulsory (with optional rosters)
<b>Aim(s):</b> To prepare students for entry to the veterinary profession by further developing their professional and clinical skills related to domestic and wild animals by exposing students to 'real-life' scenarios through Externship experiences	
<b>Intended Learning Outcomes:</b> At the end of course, students will be able to; i) apply knowledge and skills acquired during previous semesters in the 'world of work', ii) explain the role of veterinarian in private/commercial practice, iii) assess the welfare of farm, domestic and captive animals and provide advice on how to mitigate those issues, iv) demonstrate capability of furthering knowledge and skills while providing private/commercial veterinary services, v) design intervention strategies based on theoretical knowledge & skills to address the needs of domestic & wild animals, aquatic species and different production systems & industries, vi) display prudent use of antimicrobials and other pharmaceuticals in domestic & wild animals. vii) demonstrate prescribing practices that take full account of minimizing the risk of antimicrobial resistance, viii) minimise risks to food biosecurity when using pharmaceutical agents in farm animals, ix) display an ethical and professional attitude to their work, always including interactions with the public, clients and their animals; interactions with practicing veterinarians and support staff, and x) provide advice to relevant stakeholders regarding diseases of animals which affect human health and wellbeing.	
<b>Time Allocation (Hours):</b> Clinical/Field Work 360; Independent learning 40	
<b>Course content/ Course description:</b> The course consists of 2 weeks compulsory Externships Rosters in (i) dairy cattle and (ii) poultry ( <i>commercial layer and broiler management</i> ) and 2 Electives of 2 weeks selected from following list; (i) SA private practice, (ii) zoo/wildlife, (iii) aquaculture, (iv) equine, (v) swine, (vi) smallholder practice, (vii) poultry (breeder/hatchery) and (viii) poultry processing and quality assessment. The Externship and Elective rosters will be conducted in locations other than FVMAS.	
<b>Recommended Texts:</b> i) Parkinson, T.J., Vermunt, J.J. and Malmo, J. (2009). Diseases of Cattle in Australasia. The New Zealand Veterinary Association Foundation for Continuing Education (VetLearn®) ii) Noakes, D.E., Parkinson, T.J., England, G. C.W. and Arthur, G. H. (2009). Arthur's Veterinary Reproduction and Obstetrics (8 <sup>th</sup> Ed.). Elsevier. iii) Mair, T., Love, S., Schumacher, J., Smith, R.K.W. & Frazer, G. (2012). Equine Medicine, Surgery and Reproduction (2 <sup>nd</sup> Ed.). Saunders. iv) Slatter H Douglas (2003). Textbook of Small Animal surgery (3 <sup>rd</sup> Ed.). Published by Saunders v) Ettinger, S.J., Feldman, E.C. and Cote, E. (2017). Textbook of Veterinary Internal Medicine Expert Consult (8 <sup>th</sup> Ed.). Published by Saunders. vi) Brown, L. (1993). Aquaculture for Veterinarians: Fish Husbandry and Medicine. Butterworth-Heinemann.	
<b>Assessment</b>	<b>Percentage Mark</b>
In-course	50
End-semester	50

#### **4 Code of Conduct for Veterinary Students**

As a veterinary student, you are on the threshold of becoming a member of the veterinary profession, dedicated to caring for the health and well-being of animals. As a future member of the veterinary profession, you may engage in a wide range of other activities such as ensuring the safety and adequacy of food production, biomedical research and education. All of these activities entail a career of lifelong learning. Moreover, as a member of the veterinary profession, you have an obligation to serve the community while maintaining the honour and dignity of the profession.

Admission to the University of Peradeniya signifies a new chapter in your life, and the veterinary curriculum with its diverse teaching programme will be an exciting challenge for you. The following Code of Conduct is intended as a set of guidelines for acceptable behaviour for all undergraduate students in the Faculty of Veterinary Medicine and Animal Science. It will also help you get through the rigorous veterinary curriculum in an efficient manner.

1. Students shall treat each other and all members of the staff, both academic and non-academic, with respect, fairness and courtesy, irrespective of any differences they may have. No student shall at any time abuse another student or a member of staff mentally or physically.
2. Students shall follow all rules and regulations of the University of Peradeniya.
3. All students have an equal right to access common resources of the university and no student shall prevent another student or member of the staff from accessing common resources or participating in activities related to the veterinary degree programme or other activities within the university.
4. Students are expected to attend lectures, laboratory, clinical, and other classes regularly and punctually, and participate enthusiastically in all academic activities.
5. Students shall be honest and truthful in all situations relating to their education, examinations, and other activities in the university.
6. Students are expected to be active learners and to resolve their problems and difficulties through discussion and consensus.
7. Students are expected to use all available resources to gain knowledge and experience, which will result in a competent and compassionate veterinary surgeon and lay the foundation for lifelong learning.
8. Students shall always be mindful of the welfare and comfort of their patients and be sensitive to the needs of the owners.
9. Students shall not engage in clinical veterinary practice until they have successfully completed all examinations and requirements of the BVSc. programme completed the internship, and have registered with the Veterinary Council of Sri Lanka.

## **5 Regulations Relating to Examination Procedures, Offences and Punishments for Examinations Conducted Under the New Five-Year BVSc Curriculum**

Examination of a course/course unit may consist of several assessment components (quizzes, within semester and end-semester examinations, term papers, assignments, etc) and the regulations described below are valid for all such examinations

### **5.1 Regulations relating to Examination Procedure, Offences and Punishments for Examinations Conducted Under Course Unit and Semester-based Study Programmes**

These regulations have been prepared by the Senate of the University of Peradeniya and approved by the Council under Section 136 read with Sections 29, 45 and 46 of the Universities Act No. 16 of 1978 as amended by the Universities (Amendment) Act NO.7 of 1985.

#### **5.1.1 Part I - Examination Procedure**

1. A candidate is expected to be outside the examination hall at least 15 minutes before the commencement of each paper but shall not enter the hall until he/she is requested to do so by the supervisor.
2. On admission to the hall a candidate shall occupy the seat allotted to him/her and shall not change it except on the specific instruction of the Supervisor.
3. For examinations which have duration of one or more hours, a candidate shall not be admitted to the examination hall after the expiry of half an hour from the commencement of the examination. A candidate shall not be allowed to leave the hall until half an hour has elapsed from the commencement of the examination or during the last 15 minutes of the paper.
4. However, under exceptional circumstances or in cases where examinations have duration of less than one hour, the supervisor in consultation with the Dean of the Faculty concerned may use his discretion in the enforcement of Rule 3.
5. A candidate shall have his/her student record book/student identity card/admission card with him/her in the examination hall on every occasion he/she presents himself/herself for a paper. His/Her candidature is liable to be cancelled if he/she does not produce the student record book/student identity card/admission card, he/she shall sign a declaration in respect of the paper for which he/she had not produced the student record book/student identity card/admission card in the form provided for it, and produce the student record book/student identity card/admission card to the Registrar or the relevant senior Assistant Registrar/Assistant Registrar within the next three working days. If a candidate loses his/her student record book/student identity card/admission card during the examination period, he/she shall obtain a duplicate of student record book/student identity card/admission card as the case may be from the Registrar or relevant Senior Assistant Registrar/Assistant Registrar for production at the examination hall.
6. A candidate shall not have on his/her person or in his/her clothes or on the admission card, timetable, student record book/student identity card, any notes, signs or formulae etc., except those items that are permitted. All unauthorized items which a candidate has brought with him/her should be kept at a place indicated by the Supervisor / Invigilator.
7. A candidate may be required by the supervisor to declare any item in his/her possession or person.

8. No candidate shall copy or attempt to copy from any book or paper or notes or similar material or from the scripts of another candidate. A candidate shall neither help another candidate nor obtain help from another candidate or any other person. A candidate shall not conduct himself/herself so negligently that an opportunity is given to any other candidate to read anything written by him/her or to watch any practical examination performed by him/her. No candidate shall use any other unfair means or obtain or render improper assistance at the examination.
9. If any candidate was found to have copied from another candidate by an examiner at the time of marking, he/she would be treated as having committed a punishable offence.
10. No candidate shall submit a practical book or field book or dissertation/thesis or project study or answer script or assignment which has been prepared wholly or partly by anyone other than the candidate himself/herself.
11. A candidate shall bring his/her own pens, ink, mathematical instruments, erasers, pencils or any other approved equipment or stationery which he/she has been instructed to bring. The use of a calculator will be permitted only for papers that contain a rubric to that effect.
12. Examination stationery (i.e. writing paper, graph paper, drawing paper, ledger paper, precis paper etc.) will be supplied at the examination hall as and when necessary. No sheet of paper or answer book supplied to a candidate may be torn, crumbled, folded or otherwise mutilated. No papers other than those supplied to him/her by the Supervisor/invigilator shall be used by candidates. All material supplied, whether used or unused, shall be left behind on the desk and not removed from the examination hall.
13. Every candidate shall enter his/her Index Number/Registration Number on each answer book and on every continuation paper. He/She shall also enter all necessary particulars as required.
14. A candidate who inserts on scripts an index Number/Registration Number other than his/her own is liable to be considered as having attempted to cheat.
15. A script that bears no Index Number/Registration Number or has an Index Number /Registration Number which cannot be identified, is liable to be rejected. No candidate shall write his/her name or any other identifying mark on the answer script unless otherwise authorized.
16. All calculators and rough work shall be done only on paper supplied for the examination and shall be cancelled and attached to the answer script. Such work should not be done on any other material. Any candidate who disregards these instructions runs the risk of being considered as having written notes or outline of answers with the intention of copying.
17. Any answer or part of an answer, which is not to be considered for the purpose of assessment, shall be neatly crossed out. If the same question has been attempted in more than one place the answer or answers that are not to be considered shall be neatly crossed out.
18. Candidates are under the authority of the supervisor and shall assist him/her by carrying out his/her instructions and those of the Invigilator during the examination and immediately before and after it.
19. Every candidate shall conduct himself/herself as quietly as possible. A candidate is liable to be excluded from the examination hall for disorderly conduct.
20. Candidates shall stop work promptly when ordered by the Supervisor / Invigilator to do so.
21. Absolute silence shall be maintained in the examination hall and its precincts. A candidate is not permitted for any reason whatsoever to communicate or to have any dealing with

- any person other than the Supervisor /Invigilator. The attention of the Supervisor/ invigilator shall be drawn by the candidate by raising his/her hand from where he/she is seated.
22. During the course of answering a question paper no candidate shall be permitted to leave the examination hall temporarily. In case of an emergency, the Supervisor /Invigilator may grant him/her permission to do so but the candidate will be under his/her surveillance.
  23. No person shall impersonate a candidate at the examination, nor shall any candidate allow himself/herself to be impersonated by another person.
  24. Any candidate receiving unauthorized assistance from any person shall be deemed to have committed an examination offence.
  25. If circumstances arise which in the opinion of the supervisor render the cancellation or postponement of the examination necessary, he/she shall stop the examination, collect the scripts already written and then report the matter as soon as possible to the Dean of the relevant Faculty.
  26. The Supervisor/invigilator is empowered to require any candidate to make a statement in writing on any matter which may have arisen during the course of the examination and such statement shall be signed by the candidate. No candidate shall refuse to make such a statement or to sign it. If such a candidate refuses to make such a statement or refuses to sign it, the Supervisor/invigilator shall make his own statement and report the matter to the Dean of the Faculty.
  27. No candidate shall contact any person other than the Vice-Chancellor, Dean, Head of the Department, the Registrar or the relevant Senior Assistant Registrar regarding any matter concerning the examination.
  28. Every candidate shall hand over the answer script personally to the Supervisor /Invigilator or remain in his/her seat until it is collected. On no account shall a candidate hand over his/ her answer script to an attendant a minor employee, or another candidate.
  29. Every candidate who registers for a course/course unit shall be deemed to have sat the examination of that course/course unit unless he/she withdraws from the course /course unit within the prescribed period for dropping courses/course units. He/She should submit a medical certificate in support of his/her absence, prior to the commencement of the examination. If such a document cannot be submitted before the commencement of the examination. A candidate shall inform of his/her inability to attend the examination to the Dean of the Faculty within a week after the commencement of the examination. The medical certificate shall conform to the Senate Regulations.
  30. When a candidate is unable to present himself/herself for any part/section of an examination of a course/course unit, he/she shall notify or cause to be notified this fact to the Dean of the Faculty and relevant Senior Assistant Registrar or Assistant Registrar immediately. This should be confirmed in writing with supporting documents by registered post within two weeks.
  31. A student will be eligible for honours if all requirements for the award of honours are met within the prescribed period for the degree. However, candidates found guilty of an examination offence shall not be eligible for honours.
  32. No student shall sit an examination of a course/course unit, if he/she has exhausted the number of attempts that he/she is allowed to sit that particular examination, unless he/she has been granted special permission to do so by the Dean of the relevant Faculty.
  33. Students are prohibited from carrying cellular phones during the course of written, oral or practical examinations.

### **5.1.2 Part II - Examination Offences and Punishments**

1. Any candidate who violates Examination Rule 6 shall be deemed guilty of the offence of possession of unauthorized documents/items and his/her candidature for the examinations of that semester shall be cancelled and he/she shall be prohibited from sitting any examination of this university for a period varying from 1- 5 semesters.
2. Any candidate who violates Examination Rule 8 or 9 shall be deemed guilty of the offence of copying and therefore his/her candidature shall be cancelled from the examinations of that semester and he/she, shall be prohibited from sitting any examination of this university for a period of five semesters.
3. Any candidate who violates Examination Rule 10 shall be deemed guilty of the offence of having cheated at the examination and his/her candidature for the examinations of that semester shall be cancelled and he/she shall be prohibited from sitting any examination of this university for a period varying from 1 - 9 semesters.
4. Any candidate who is detected removing examination stationery and other material provided for the examination (Rule 12) shall deemed guilty of an examination offence and his/her candidature for the examinations of that semester shall be cancelled and he/she shall be liable to be prohibited from sitting any examination of this university for a period of three semesters.
5. Any candidate who violates anyone or more of the rules in 7, 16, 17, 18, 19 and 20 shall be deemed guilty of the offence of disorderly conduct and his/her candidature shall be cancelled from the examinations of that semester and he/she shall be prohibited from sitting any examination of this university for a period of three semesters.
6. Any candidate who violates Examination Rule 21 shall be guilty of the offence of impersonation and his/her candidature for the examinations of that semester shall be cancelled and he/she shall be prohibited from sitting any examination of this university. Impersonator/s may also be liable to any punishment under the Penal Code/Criminal Law. In the event the impersonator is found to be a graduate of this university, his/her degree shall be withdrawn.
7. Any candidate who violates Examination Rule 22 shall be guilty of an examination offence and his/her candidature for the examinations of that semester shall be cancelled and he/she shall be prohibited from sitting any examination of this university for a period of 1- 5 semesters.
8. Any candidate found aiding and abetting in the commission of any of the above examination offences shall be deemed to have committed that offence and shall be punished in respect of the offence in accordance with the provisions of the relevant section.
9. Any other offence which is not covered in the above sections alleged to have been committed by a candidate and reported to the relevant authority by a Supervisor or Examiner shall be inquired into and appropriate action taken.

### **5.1.3 Part III - Procedure Regarding Examination Offences Committed by Candidates**

1. There shall be an Examination Disciplinary Committee of not less than 3 members of whom at least one member is from outside the Faculty, appointed for each case by the Dean of the relevant Faculty to inquire into and make recommendations (including punishments) on examination offences referred to it. Member(s) outside the Faculty shall be selected from a panel of members appointed for this purpose by the Vice Chancellor.
2. Examination offences may be broadly classified as follows:
  - 2.1 Possession of unauthorized documents/items
  - 2.2 Copying
  - 2.3 Cheating
  - 2.4 Removal of stationery
  - 2.5 Disorderly conduct
  - 2.6 Impersonation
  - 2.7 Unauthorized assistance
  - 2.8 Aiding and abetting in the commission of above offences
  - 2.9 Other offences
3. Punishments (As specified in Part 11, Section 1 to 9)
4. Procedure
  - 4.1. In all cases of violation of examination rules detected, the Supervisor shall take action as outlined below and forward his/her report to the relevant Dean/Senior Assistant Registrar or Assistant Registrar.
  - 4.2. In case of disorderly conduct, the Supervisor shall in the first instance warn the candidate to be of good behaviour. Disorderly conduct shall be considered grave, only if such conduct in the opinion of the supervisor is considered as causing a disturbance in the conduct of the examination. Where the candidate persists in unruly or disorderly conduct the supervisor may exclude the candidate from the examination hall and issue him a letter with a copy to the relevant Dean/Senior Assistant Registrar/Assistant Registrar, cancelling his/her candidature from the examination.
  - 4.3. In all cases of examination offences detected, the Supervisor shall send a report to the relevant Dean along with any material taken into custody. Material taken into custody should be authenticated by placing the signatures of the candidate and the Supervisor / Invigilator and the date, time and place of detection. A Supervisor should give of any incriminating material of which he/she cannot take possession. The Supervisor's report should be countersigned by one of the Invigilators.
  - 4.4. The Dean after preliminary inquiry shall place all reports of examination offences submitted by Supervisors for action of the relevant Examination Disciplinary Committee for further action
  - 4.5. Supervisor, Examiner, Head of Department or any other official of the University who detects an examination offence shall report the matter in writing to the relevant Dean, who shall after preliminary inquiry submit his findings to the relevant Examination Disciplinary Committee for further action.
  - 4.6. Any allegations regarding the commission of examination offences from whomsoever received shall be submitted by the Dean after preliminary inquiry to the relevant Examination Disciplinary Committee for further action.

5. The Decision

The punishment recommended by the Examination Disciplinary Committee shall be submitted to the relevant Faculty Board for a decision and the decision will be reported to the Senate. Senior Assistant Registrar/Assistant Registrar of the relevant Faculty shall be the Convener/Secretary of the inquiring committee on examination offences.

6. Appeals Board

There shall be an Appeals Board, consisting of three members, appointed by the Vice Chancellor to consider appeals regarding the decision referred to in 5.1 above. Any student on whom a punishment has been imposed may, within a period of two weeks from the date of communication to him/her of such punishment, appeal against such punishment to the Vice Chancellor.

**5.2 Examination By-Laws of Faculty of Veterinary Medicine and Animal Sciences**

1. The examinations governed by these rules and regulations shall be conducted by a Board of Examiners appointed by the Senate.
2. There shall be in-course and end-semester examinations for all courses as stipulated in the curriculum (Refer to 3.6 Course Descriptions) and all the assessments of each course shall be conducted according to the guidelines proposed for that course.
3. All examination papers, for both in-course assessments and end-semester examinations, shall be scrutinized by the Board of Examiners appointed for the respective examinations. During scrutiny of examination questions, the Examination Board shall crosscheck whether the questions match the competencies mentioned in the assessment matrix and course specifications of the specific course.
4. The schedule of in-course assessments and end-semester examinations shall be notified to students at the commencement of the course. In-course assessments are typically scheduled within timetable hours allocated for that course.
5. No makeup examinations are given for students who fail to sit for an in-course assessment.
6. All students are expected to be present at all teaching-learning activities scheduled for them. To become eligible to sit for the first available end-semester examination for a particular course, a student must have a minimum attendance of 80% for that particular course. Additionally, for courses with clinical and externship appointments, clinical competencies stipulated for the respective course should be achieved. Students failing to fulfil these minimum requirements may not be eligible to sit for the first available end-semester examination. Such a student shall sit for the repeat examination that will be held at the end of the respective academic year.
7. With respect to any end-semester examination, an eligible student shall sit the first available examination unless a valid excuse has been submitted and accepted by the Faculty Board.
  - A. The examination held immediately following the completion of the course at the end of each semester shall be deemed to be the first available examination.
  - B. To sit an examination means taking all components of the examination of a relevant course in one and the same sitting.
  - C. In the absence of an acceptable excuse, failure to sit the first available examination shall be considered as an unsuccessful attempt at that examination.

8. In the event an excuse submitted is accepted by the Faculty Board, the examination shall not be considered an attempt.

A valid excuse shall be:

A. Illness or injury -

In case of an illness or injury, the student or his/ her parents/ guardian should contact the Dean of the Faculty within 7 days by telephone/ fax or e-mail followed by a letter within a period of 2 weeks indicating the nature of the illness and the name of the attending doctor. A medical certificate supporting the illness of the student should also be sent to the Dean of the Faculty. Medical certificates should be obtained from the following persons: University Medical Officer, District Medical Officer, Consultant Physician/ Surgeon, Head of Government Base Hospital, Medical Superintendent of a Provincial Ayurvedic Government Hospital, or an Ayurvedic Physician registered with the Ayurvedic Medical Council. Under special circumstances, a medical certificate issued by a private hospital or a registered private practitioner may be considered by the University Medical Board. The University Chief Medical Officer shall certify the acceptance of the medical certificate. Procedures approved by the University of Peradeniya, governing the acceptance of Medical Certificates submitted by students for work and examinations shall apply in all such events.

B. Personal problem involving immediate family member -

In case of a personal problem involving an immediate family member, the student should contact the Dean of the Faculty within 7 days by telephone/ fax or e-mail followed by a letter within a period of 2 weeks indicating the circumstances leading to his/ her absence from the examination. His/ her excuse shall be considered by the Faculty Board. Grounds for favourable consideration shall be:

a) Death of an immediate family member

b) Serious illness of an immediate family member requiring personal attention by the student and certified by a medical practitioner specified in the university rules governing the medical certificates.

C. Participation in a university or national level event or any other legitimate cause for which prior permission has been obtained from the Faculty Board.

D. A serious natural disaster where evidence is available to prove that it has affected the candidate.

9. If a student is unable to sit the first available end-semester examination due to any of the reasons stated on Clause (viii), he/ she should sit the very next available examination which shall be considered his/ her first attempt.

10. Letter Grades and Grade Point Values (GPV) for each course shall be calculated based on the following guidelines stipulated on University Grants Commission Circular No. 901 dated 25th November 2008.

A+	A	A-	B+	B	B-	C+	C	C-	D+	D	E
4.00	4.00	3.70	3.30	3.00	2.70	2.30	2.00	1.70	1.30	1.00	0.00

11. A candidate shall be considered to have successfully completed and passed a course if he/ she earns a minimum of a 'C' grade for that particular course.
12. A candidate shall be considered to have failed a course if he/ she earns a 'C minus' grade or less for a single course. Such a student shall sit for the repeat examination that will be held at the end of the respective academic year. Repeat examinations for all semester-I and semester-II courses of a given academic year will be held at the end of the respective academic year, after the completion of the end of Semester-II examination.
13. A student who has failed a course at the first attempt shall be given a maximum of three more attempts to complete the examination of the course.
  - A. A grade higher than a 'C' shall not be awarded at a repeat examination.
  - B. A student who has not obtained a minimum of C grade within the four attempts shall not be permitted to sit that examination again and his/ her studentship shall be terminated (except English I and II)
  - C. However, under exceptional circumstances, an appeal for a fifth attempt may be considered by the Faculty Board.
14. Students are expected to obtain a minimum of a 'C' grade for each of the courses offered during a particular year before they progress to the subsequent year of the BVSc programme. However, a student that has obtained no less than a 'C minus' grade for a single course will be allowed to progress to the subsequent year provided he/she has earned 'C' or better grades for all other courses offered during that particular year. Such a student that progresses to the following year with a 'C minus' grade is required to improve his/her grade to a 'C' at the repeat examination/s offered during the following year/s as detailed on Clause (xii).
15. A student carrying a 'C minus' grade shall not be allowed to progress more than one year in the BVSc degree programme; i.e. a student needs to pass all courses offered during 1st, 2nd and 3rd years to enter 3rd, 4th and 5th years, respectively.
16. A Grade Point Average (GPA) shall be calculated for each examination (semester-GPA) based on the grades obtained for individual courses using the formula:  $GPA = \frac{\sum c_i g_i}{\sum c_i}$ , where  $c_i$  and  $g_i$  are the number of credits and the grade point value for the  $i$ th course unit, respectively.
17. In the case of a repeat examination where the student shall not be awarded a grade higher than a 'C', a GPV of 2.00 will be used to calculate the GPA.
18. A cumulative-GPA will be calculated at the end of the Semester 10 examination. Awarding of classes shall be determined according to the cumulative-GPA, which shall be based on the cut off values prescribed by the University Grants Commission Circular No. 901 dated 25th November 2008 and are given below.

First	Second Upper	Second Lower	Pass
3.70	3.30	3.00	2.00

19. A student shall not be eligible for a class if he/ she takes more than five academic years to complete the study programme unless he/ she is excused under Clause (viii). Further, to be eligible for a First class, the student should achieve a cumulative-GPA of 3.7 while maintaining a minimum semester-GPA of 3.30 at each end-semester examination.
20. Notwithstanding the fact that he/ she may be otherwise eligible, a student shall not be permitted to sit any further examinations if ten (10) academic years have passed since his/ her registration as a veterinary student. However, under exceptional circumstances, an

appeal for extension of this period may be considered by the Faculty Board. Recommendations of the Faculty Board in this regard shall be sent to the Senate for approval.

21. A student shall be awarded the Degree of Bachelor of Veterinary Science, if he/ she has:
  - A. been registered as a veterinary undergraduate student of the University for a period not less than 5 academic years (10 Semesters),
  - B. completed to the satisfaction of the Vice Chancellor, courses of study as prescribed in the curriculum governed by the rules and regulations made thereunder,
  - C. successfully passed all courses of the study programme,
  - D. paid such fees or other dues as prescribed by the University,
  - E. fulfilled all other conditions or requirements as prescribed by the University, and
  - F. completed the Bachelor of Veterinary Science study programme within ten (10) academic years from the date of registration as an undergraduate.
22. Effective date of the degree shall be the date of successful completion of all the courses offered in the Semester 9 and 10 examinations.
23. At the successful completion of Semester 10 for each batch of students, the overall order of merit shall be determined based on cumulative-GPA. However, when deciding on medals, awards, and prizes for a particular course, raw marks for that particular course will be considered.

## **6 Scholarships, Prizes, Gold Medals and Special Recognition Awards**

The following Scholarships, Prizes and Medals are available to undergraduate students reading for the BVSc degree. They shall be awarded by the Senate on the recommendation of the Board of Examiners for the First, Second, Third and Final examinations in Veterinary Medicine and Animal Science.

### **6.1 Scholarships**

- 1) Astron Veterinary Scholarships (Two)

### **6.2 Prizes**

- 1) Prof. G.E. Kodituwakku Prize for excellence in Veterinary Surgery
- 2) Prof. S.T. Fernando Memorial Prize for excellence in Veterinary Parasitology
- 3) University Prize for Academic Excellence

### **6.3 Gold Medals**

- 1) Prof. and Mrs. M.P. Seneviratne Gold Medal for Veterinary Parasitology
- 2) Dr. Dewansa Seneviratne Gold Medal for excellence in Veterinary Public Health
- 3) The Arunachalam Chinniah Gold Medal for excellence in Veterinary Science
- 4) Prof. S.T. Fernando Memorial Gold Medal for excellence in Veterinary Medicine and Animal Science
- 5) Prof. S.T. Fernando Memorial Gold Medal for excellence in Veterinary Medicine
- 6) Mrs. Anand Kumari Sikka Memorial Gold Medal for excellence in Veterinary Reproduction and Obstetrics
- 7) Gold Medal for excellence in Veterinary Pathology
- 8) The Peradeniya University Gold Medal

## **6.4 Special Recognition Awards**

- 6.4.1 **Dean's List:** The top 5 students from each batch of students will be placed on the Dean's List on the basis of cumulative marks obtained for the respective semester.
- 6.4.2 **Faculty Awards:** This prestigious award goes to students that excel in both academic and extra-curricular activities

## **7 Bursaries and Scholarships**

### **Bursaries and scholarships for students who need financial assistance**

#### **7.1 Mahapola Scholarships**

Veterinary Students can apply for Mahapola Scholarships awarded by the Mahapola Scholarship Trust Fund. The Mahapola Trust Fund offers two categories of scholarships.

Mahapola Higher Education Merit Scholarship awarded on the basis of merit. The selection for the Scholarship is based on the GCE Advanced Level Examination.

Mahapola Higher Education Scholarship are awarded to needy students with financial difficulties in the form of bursaries.

#### **7.2 University Bursaries**

Veterinary Students who need financial assistance can apply for these bursaries of Rs. 10,000/- or Rs. 9,000/- per year. This will be granted in ten installments depending on the degree of financial need.

#### **7.3 University Grants Commission Bursaries for Needy Students**

Students can also apply to the UGC for these bursaries.

### **Conditions of the Mahapola Higher Education Scholarship Trust Fund**

1. Monthly Scholarship installments will be paid based on the recommendations by the relevant University on the progress made by the scholarship recipient on studies for which the scholarship was awarded.
  - i. Scholarship installments will be paid up to a maximum of 10 installments per academic year, for the full duration of the study course on University. Only 9 Installments will be paid for the students of Sri Lanka Institute of Advanced Technical Education.
  - ii. Students should be engaged in full time studies to be entitled to the Scholarship payments and no payments will be made for those who do not participate in full time studies.
  - iii. The Scholarship installments will be paid at the University/ Institute to which the student is attached and only one Scholarship installment per month will be released for payment.

- iv. Scholarship installments should be collected regularly, and uncollected installments will be treated as unneeded and abandoned installments. Such installments will not be re-paid unless under exceptional circumstances.
    - v. After acceptance of this scholarship, the student will not be entitled to receive any other scholarship or bursary connected with this same course of study of any other course of study. In case the students become eligible for another such scholarship he/she will have the option either to retain the former scholarship only or to have the former scholarship cancelled and commence to receive payments under the new scholarship. In either case the student should notify this office immediately.
2. Following another course of study in lieu of the study course for which this scholarship has been awarded, non-participation in studies, prolonged absence from studies, failure at yearly examinations, abandonment of the study course, etc. will result in the cancellation of your scholarship.
  - I. Non-participation in lectures, tutorial classes and practicals connected with the study course, followed by reports to that effect by the University could also result in the suspension or cancellation of the scholarship. Guilty on act of misconduct scholarship will be cancelled.
  - II. If the student engages himself in business or employment during his studies or if there is an increase in income levels during that period, these factors too will result in the discontinuance of the scholarship payment.
3. In the event of a student obtaining permission for postponement of his/her studies, on unavoidable and uncontrollable circumstances he/she should produce the relevant letter of authority to the Mahapola Scholarship Trust Fund and state whether he/she proposes to secure the scholarship next year. Such request will be entertained up to a maximum of one year's postponement of the Scholarship. Even in a case of postponement of studies, the student should accept the award at the first award ceremony to be entitled to the Scholarship.
4. If the study course in the University is later changed. Such a student is found eligible for a Mahapola Scholarship under the new study course, based on the marks scored, he/she will then be awarded a new Scholarship, based on the recommendation of the University Grants Commission. In such case, the student should notify this office immediately about the change in the study course.
5. The decision of the Mahapola Higher Education Scholarship Trust Fund on matters relating to the Scholarship, as well as to Scholarship payments, will be treated final.

#### **7.4 Financial aid awarded by the Faculty of Veterinary Medicine and Animal Science**

1. Dr. Ajantha Horadagoda Memorial Bursary awarded by Dr. Neil Horadagoda.

2. Best Care Animal Hospital Bursary awarded by Best Care Animal Hospital, Colombo.
3. Bursaries of the Faculty of Veterinary Medicine and Animal Science.
4. Veterinary Alumni Association of Peradeniya University (VAAPU)-sponsored bursaries

## **Eligibility Criteria**

### **7.4.1 Dr. Ajantha Horadagoda Memorial Bursary**

This bursary is available for **one first year student** that requires financial assistance. The total value of the bursary, Rs.24,000.00, will be awarded in four equal instalments during a given academic year.

### **7.4.2 Best Care Animal Hospital Bursary**

This bursary is available for a **total of five students** (one student per batch) who require financial assistance. The total value of each bursary, Rs. 20,000.00, will be awarded in ten equal instalments during a given academic year.

### **7.4.3 Bursaries of the Faculty of Veterinary Medicine & Animal Science**

This bursary is generally available for **three** students who require financial assistance. However, the exact number of bursaries and specific qualifying criteria will change from year to year depending on the requests of donors. Please contact the office of the Assistant Registrar to find out the exact qualifying criteria for a given year.

### **7.4.4 Veterinary Alumni Association of Peradeniya University (VAAPU)-sponsored bursaries**

This bursary scheme was recently established in 2020. Please contact the office of the Assistant Registrar to learn specific details about this bursary.

## **Conditions of the Bursaries**

The following conditions are applicable for all bursaries listed above:

1. If a student is found to have falsified details in the application, he/ she will be disqualified from consideration for a bursary. If he/ she has already received financial aid in part, it will be discontinued immediately, and the student concerned will be barred from applying for future financial aid. Further, the student will have to fully reimburse funds already received under the bursary.
2. Students who have repeatedly been referred in examinations and as a consequence are in a different batch that that they were originally registered in, are disqualified from applying for a bursary. However, if a student has deferred their batch for a valid reason (e.g. medical condition), their application will be entertained.
3. Students who have received disciplinary action in the University are automatically disqualified from consideration for a bursary.

4. If a student who receives financial aid commits any act categorized as an offense under University Rules and Regulations, which calls for disciplinary action, the Bursary will be discontinued immediately, and the student concerned will be barred from applying for future financial aid.

All applications will be screened by a Selection Committee appointed by the Faculty Board of the Faculty of Veterinary Medicine and Animal Science. The decision of Selection Committee will be final.

## **8 Legal Requirements for Practice**

A veterinary graduate must be registered as a Veterinary Surgeon under the Veterinary Surgeons and Practitioners Act. No. 46 of 1956, before he/she can practice Veterinary Science in Sri Lanka. An application for registration, including a registration fee, should be made to the Registrar, Veterinary Council of Sri Lanka, immediately after graduation.

### **8.1 Qualifications for Registration**

Veterinary graduates qualified from the University of Peradeniya and intend to apply to the Veterinary Council for registration as a veterinary surgeon shall submit the duly completed application form, two passport size photographs (6.0 cm X 4.0 cm) duly certified by a Justice of Peace (on the reverse) and the following original documents together with a photocopy of each such document to the Registrar of the Council:

- a) Birth certificate of the applicant.
- b) A character certificate issued by a senior academic staff member (Senior Lecturer and above) of the Faculty from which he/she graduated or from a person acceptable to the Council.
- c) Degree / Provisional Degree certificate issued by the University.

On receipt of the above, the Council at its discretion shall provisionally register the applicant as a veterinary surgeon for a period of six months. During this period, the applicant shall undergo a six months' internship training conducted jointly by the Veterinary Council and the Department of Animal Production and Health. The Council shall, upon being satisfied that the applicant has successfully completed the internship and having applied to the Council for registration and paid the prescribed fee, register the applicant as a veterinary surgeon and issue a certificate to that effect.

## **9 Important University Facilities and Amenities**

### **9.1 Library**

The library facility of the University of Peradeniya consists of a library network comprising of the Main Library and seven other branch libraries, namely Agriculture, Science, Medical, Engineering, Vet Medicine, Allied Health Science, and Dental faculty libraries. The ninth library is attached to the Faculty of Agriculture in Mahalluppallama sub-campus. The Main Library is located between and adjacent to the Senate building and the main Arts building. The Peradeniya University Library Network is the oldest and the largest university library in Sri Lanka.

Contact Information: Main Library Senate Building

Phone: Counter I, Ground Floor: 081 239 2475  
Counter II, First Floor: 081 239 2480  
Short -Term Reference Counter: 081 239 2481  
Web: <http://www.lib.pdn.ac.lk>  
Opening hours: 7.15 am to 6.30 pm (Weekdays)  
8.00 am to 4.15 pm (Saturdays)  
(Opening Hours may change during examination periods)

## 9.2 Health center

The University Health Service provides medical care to the university community of students, staff and the immediate family members of staff. The Health Centre, which has facilities for in-patient treatment, is opened for outpatient services from 8:00 AM to Noon and from 2:00 PM to 3:30 PM on working days, and from 9:00 AM to 11:30 AM during weekends. An emergency service supported by two ambulances is available during all hours.

Students and members of the staff are required to register at the Health Centre by paying a small registration fee before seeking treatment. Patients who need specialized treatment are referred to consultant specialists of the Teaching Hospital at Peradeniya, the Kandy General Hospital, and the Peradeniya University Dental School. If necessary, the Health Centre's ambulances transport patients to these hospitals. Medical examinations of students and of new recruits to the staff are done at the Health Centre.

Among other services provided by the Health Centre are preventive health services, health education, and environmental health, which includes the monitoring of water and food supplies to the university. The services provided by the centre include the following:

### **Out-Patient Department (OPD)**

The OPD is open from 8.30 am to 12.30 pm and 2.30 pm to 4.30 pm during weekdays, and from 9.00 am to 11.00 am on weekends. However, emergency cases are attended to throughout the day and night.

### **24-hour treatment facility**

Patients who need treatment are admitted to the male and female wards at any time of the day or night. Two isolation wards are available to treat students with infectious diseases (Mumps, Chicken Pox etc.). A well-equipped laboratory is available to carry out investigations required by the university medical officers.

### **Pharmacy**

It issues medicines for the prescriptions by the university medical officers.

### **24-hour ambulance service**

This service may be obtained at the request made through the warden, sub warden, dean or assistant registrar.

### **Immunizations**

Immunization programs are carried out for Hepatitis B vaccine (for Dental, Allied Health & Medical students) and Anti Rabies and Tetanus toxoid vaccines are administered to Veterinary students when necessary. The H1N1 and the Rubella vaccines are given only when there is an epidemic under the guidance of the Epidemiologist.

### **Psychological Counseling**

Stress, anxiety and various psychosomatic illnesses are not uncommon amongst the university community and the university medical officers have received specialized training in psychological counseling to help/treat members of the university community, on such conditions.

### **Preventive healthcare**

This is given great emphasis. Public Health Inspectors and a work force of trained personnel provide these services under the supervision of the Chief Medical Officer (CMO). Their responsibilities include monitoring food hygiene, ensuring purity of drinking water, maintenance of the university sewerage, garbage disposal, environmental sanitation and pest control.

### **Location:**

At the furthest end of the road running alongside and behind the Sangamitta Hall of Residence.

### **Contact information:**

Chief Medical Officer: Dr. P.M.A Samarakkody  
Phone: 081 238 8152, 081 239 2024  
Office/Lab – 081 239 2028  
Female Wards/Pharmacy – 081 239 2022/26  
Opening Hours: 8.30 am - 4.30 pm including Saturdays (OPD)

## **9.3 Marshals' Unit**

Marshals' Unit consists of a Chief Marshal and five Marshals. The main function of the Marshals division is to maintain discipline of students by keeping vigilance on their activities and behavior at the Faculties, Centres, Gymnasium, Playground and Halls of residence under the direction of the Deputy Vice Chancellor.

### **Contact Information:**

Office Counter	081 239 2423
Mr. W.A.A. Werahera (Chief Marshal)	0775 996 290/ 0710 705 689
Mr. R. Gajaweera (Marshal)	0714 395 666
Mr. S.M.C.S.B. Wanniarachchi (Marshal)	0718 293 887
Mr. D.M.R.S. Dasanayke (Marshal)	0714 472 843
Mr. M. Abeywickrama (Marshal)	0718 314 604
Mr. S. Satheswaran (Marshal)	0774 332 333
Ms. S.M.D.N.K. Senevirathna (Lady Marshal)	0713 432 791

#### 9.4 Security office

The Security office of University of Peradeniya is a permanent service comprising of a Chief Security Officer, Deputy Chief Security Officer, Security Inspector and Security Guards. The main duty of the security office is to provide security to the entire University Premises. Students may contact the security office or security guards in case of emergency and lodging complains.

##### Contact Information:

Security Officer	081 238 9182/ 081 239 2133
Chief Security Officer	081 239 2134
Deputy Chief Security Officer	081 239 2240
Opening Hours	Open 24 hours a day, 7 days a week

#### 9.5 Information Technology Centre (IT Centre)

The Information Technology Centre (IT Centre) is located behind the WUS Building Complex, near the Gymnasium. It provides opportunities for undergraduates of the University to improve their ICT skills by offering part time and other regular training programs.

##### Services and Facilities:

Computer facilities with Internet access. Students need to register and obtain their account passwords prior to using the facilities in the centre.

##### Contact Information:

Reception Counter	081 239 2909
Office	081 239 2070/2900/2906
Opening Hours	8.00 am to 5.00 pm



## 9.6 The Department of Physical Education / Gymnasium

The Department of Physical Education offers a range of services to students by providing facilities for both indoor and outdoor games. The location of the Department of Physical Education is near the Information Technology Centre.

Services and Facilities:

Indoor sport facilities, swimming pool, fitness centre; organizes Faculty, University and Inter University level sports Tournaments.

Contact Information:

Mr. Palitha Kumara/ Director	081 239 2164
Office	081 239 2162
Swimming Pool	081 239 2163
Opening Hours:	7.00 am to 8.00 pm
	Students may use the Gymnasium on
	Weekdays from 9 a.m to 11 a.m and from 4 p.m to 7 p.m
	Saturdays from 3 p.m to 6 p.m



## 10 Clubs and Societies

Student activities both the faculty level and university level play a major role in student life at the University. Most student activities are organized through student societies. Some of these activities include seminars, workshops, fieldwork and exhibitions, held throughout the year. Some societies expect their members to pay a nominal membership fee either annually or monthly.



### **Cultural, Drama, Music and Recreational Societies**

1. Arts Council
2. Sinhala Sangamaya
3. Sinhala Natya Mandalaya
4. Tamil Sangeetha Natya Sangam
5. Tamil Society
6. Soba Sansadaya
7. English Drama Society
8. Film Society
9. Gandarwa Sabhawa



The university comprises a multi-religious population of Buddhist, Catholic, Christian, Hindu and Islamic people. A Buddhist Temple, a Roman Catholic Church, a Christian Church, a Hindu Kovil and a Mosque are located within the university campus to ensure freedom and facilities to practice any religious faith within the university. There are five registered religious societies in the university which organize religious activities. These societies are as follows:

1. Buddhist Brotherhood
2. Students Meditation Society (Sinhala Bhavana Samajaya)
3. Newman Society (For Roman Catholics)
4. Student Christian Movement
5. Hindu Society

## 6. University Muslim Majlis



### Other Societies

1. Computer Society
2. Explorers' Club
3. Hanthana Conservation Society
4. Sports Council
5. Veterinary Wildlife and Photography Society
6. Veterinary Anatomical Society

## 11 Places of importance in the vicinity

### 11.1 Royal Botanical Gardens

The Royal Botanical Gardens is a wonderful natural resource which is situated a few yards away from the university premises.

### 11.2 Embekka, Gadaladeniya and Lankathilaka shrines

These places of religious importance are situated in Pilimathalawa, a few kilometres away from the campus have immense historic value and reflect the rich cultural heritage of Sri Lanka.

## 12 Places of Worship on Campus and in Kandy

### 12.1 University Buddhist Viharaya

Situated in the renovated telephone exchange, this complex provides a place for students to practice meditation, observe *sil* on Poya days and participate in *Dhamma* discussions.

Contact Information:

Tel. 0812388975/ University Extension: 2111/2113

### **12.2 University Hindu Temple**

The Hindu temple which is located at lower Hanthana provides a place of worship Hindu students.

Contact Information: Tel. 0812388139

### **12.3 University Mosque**

With easy access from the university, it provides a place of worship for Muslim students. It also has a limited facility for accommodating students and guests.

### **12.4 University Christian Churches**

A Christian Chapel (Chaplain 0812388294) and a Catholic Church (Chaplain: 0812388292) are located in the campus providing opportunity for prayer and fellowship.

### **12.5 Gatambe Viharaya**

It is a place of Buddhist worship frequently visited by the students especially on *Poya* days.

### **12.6 Dalada Maligawa (Temple of the Tooth)**

The temple of sacred Tooth Relic of Lord Buddha is situated in the center of Kandy town, 5 km away from Peradeniya. The peaceful and calm environment of Dalada Maligawa creates unmatched serenity on the mind of any visitor.

### 13 Accommodation

The University of Peradeniya was originally planned as an entirely residential facility. Due to the increased intake of students in recent years, residential facilities could not be provided to all the students. However, a majority of students and a limited number of staff are provided residential facilities.

The University has 16 halls of residence for students and 4 Bhikku hostels. In addition, accommodation is available at the Agriculture sub-campus at Mahailuppallama (130 km north of Peradeniya) for first year agriculture students following the practical classes. Part time wardens from among the academic staff are appointed in charge of the organization and maintenance of discipline in the halls of residence. They are assisted by permanent wardens and part time academic sub-wardens. The halls of residence consist of study bedrooms which are shared by 2 or 3 students. An attempt is made to accommodate students of different faculties in the same halls of residence. A nominal fee is charged for the room and an additional fee per month is levied on students who use personal electrical appliances such as irons, radios etc. Meals are available in hall canteens where food is provided at prices fixed by the university.

#### Halls of Residence

<b>Name of the Hall (Male)</b>	<b>Telephone</b>
Arunachalam Hall	<b>081 239 2122</b>
Akbar-Nell Hall	<b>081 239 2123</b>
Bhikku Hostel-Lake house Hall	<b>081 239 2033</b>
Bhikku Hostel-Kehelpannala Hall	<b>081 239 2031</b>
Hindagala Hall	<b>081 239 2089</b>
James Peiris Hall	<b>081 239 2125</b>
Jayathilake Hall	<b>081 239 2126</b>
New Akbar Hall	<b>081 239 2105</b>
Marcus Fernando Hall	<b>081 239 2128</b>
Marrs Hall	<b>081 239 2127</b>
Sarasavi Uyana Hall	<b>081 239 2188</b>
Sir Ivor Jennings Hall	<b>081 239 2130</b>
<b>Name of the Hall (Female)</b>	<b>Telephone</b>
Hilda Obesekara Hall	<b>081 239 2124</b>
Ramanathan Hall	<b>081 239 2129</b>
Sangamitta Hall	<b>081 239 2038</b>
Wijayawardhana Hall	<b>081 239 2131</b>

## 14 Food and other Commodities

University students can buy food at special rates within the University premises. Special rates apply to rice and curry and other food items prepared in university canteens. These prices are approximately 50% lower than the consumer prices in Sri Lanka. Each faculty and hall of residence has one or more canteens which cater to the needs of students. Commodities are available at the two university co-operative shops which are conveniently located on the Campus. These cater to the general needs of the entire University community. Dairy products, meat and vegetables are available at special prices at the sales outlet of the Department of Animal Husbandry which is located opposite the Faculty of Veterinary Science. Students can also purchase variety of food items and day to day requirements from places such as "Hela Bojun" food stall located in front of the Faculty of Agriculture, Super Markets, Shopping complexes and sales outlets situated in close proximity to the University premises. The town of Peradeniya (1 km away) and the city of Kandy (5 km away) are the main shopping centers.

The following are the food outlets within the premises of the University. Residential students may also purchase their meals from the canteens in their Halls of Residence at subsidized rates.

Name	Location
Faculty canteen	Close to the DFAPH of FVMAS
Milk Bar (Sarasavi Kiri Hala)	Faculty of Agriculture
World University Service (WUS) canteen	WUS Building
Milk Bar (Sarasavi Kiri Hala)	Behind the Kannangara building of the New Arts Theatre
Veterinary Teaching Farm Sales outlet	Inside DFAPH premises of FVMAS
Hela Bojun food stall	In front of Faculty of Agriculture

### Student common room

The Faculty of Veterinary Medicine and Animal Science has a Students' common room with many facilities for the daily use of Students. It is also the venue for many of the students' social gatherings.

Location: First Floor, Canteen Building

Opening Hours: 7.00 am to 7. 00 pm

### Career Guidance Unit

Career Guidance Unit Provides advice to students on employment after graduation, organizes workshops and training sessions on skills development.

Location: Inside the WUS Building overlooking the WUS Canteen

Telephone: 081-2392013 (Ms. Arosha Perera/Career Guidance Counsellor)

### Post Office

The University has a small post office located in the premises of the Faculty of Arts. This office provides basic postal and telegraphic services between 8:00 AM. and 4:00 PM during weekdays. The delivery of mail to the university, however, is undertaken by the Peradeniya

Main Post Office on old Galaha Road. Residential students can receive their mail at their halls of residence. Mail is delivered from Monday to Saturday around 7:00 AM.

### **Banking Facilities**

The two state owned banks, Bank of Ceylon and Peoples' Bank, have branches in the university. Both are housed in the ground floor of the Senate Building, adjoining the Faculty of Arts. Bank of Ceylon also has an ATM facility located in the premises.

### **The Student Centre**

The Student Centre houses a bookshop, a cooperative sales outlet, and a hair dressing salon. Most grocery items are available in this cooperative sales outlet. There is a bigger cooperative shop with a wider variety of grocery and food items located in the eastern end of the campus on the way to Rajawatte. Many canteens in the halls of residence have items such as toiletry, stationery, tea, and milk powder.

Bookshop	WUS Building
Photocopy Centre	In the Faculty Library
Photocopy Centre	University Welfare Building
Photocopy Centre	WUS Building
Photocopy Centre	Near Food Science Department- Faculty of Agriculture
Post Office	WUS Building
Unisex Saloon	WUS Building
Unisex Tailor Shop	WUS Building
Laundry	Near to the Security Office, Ground Floor
Buddhist Temple	Above the Vice Chancellor's Lodge
Catholic Chaplaincy	Near Ramanadan Hall
NCC Church (Galpalliya)	Uda Peradeniya Road
Hindu Kovil	Uda Peradeniya Road
Muslim Mosque	Uda Peradeniya Road

## **15 Other Useful Information**

### **15.1 Registration for Academic year**

Students are required to register for respective courses within the first two weeks of each academic year. The Procedure is given below.

The Office of the Dean announces dates for the registration and the students should register using the form available at the Office of the Dean. The registration fee should be deposited to the bank account in the paying voucher issued by the Bank or Student Services Division at the Senate building. Duly completed forms together with the bank slip should be handed over to the Students Services Division of the Office of the Dean at the time of registration.

Registration fees are as follows;

Renewal fee	= Rs. 400.00
Sports Facilities Fee	= Rs. 200.00
Peradeniya Students Union.	= Rs. 50.00
Arts Council	= Rs. 120.00
Hall Facilities	= Rs. 30.00
Medical Fee	= Rs. 200.00
Total	= Rs. 1000.00

You should submit your Registration Renewal form with the Receipt of payment and Record Book. Relevant Forms can be downloaded from the Faculty Website.

### **Re-Admissions: Policy decisions regarding requests for re-admissions**

1. If a student is compelled to discontinue his course of study while pursuing his study at the University, such a student should notify the Dean of the Faculty and the Registrar/ within one month of such discontinuation and obtain permission of the admissions committee to be away from the University.
2. If any student wishes to get his registration postponed at the time of registration, he/she shall inform the University giving reasons for such postponement and obtain permission from the University.
3. When the above requests are granted, period of absence from the University of such a student shall not exceed more than one year except on approved medical grounds. A request granted on medical grounds shall not exceed two years. However, his/her re-admission shall be subject to the availability of places in the relevant Faculty at the time of re-admission. If a student fails to have his/her registration renewed at the beginning within the period specified by the Faculty of each academic year as required, his/her name would be deleted from the class list of the Faculty and informed accordingly.
4. When registration of a student is cancelled, he/she will be informed of such cancellation.

### **15.2 Policy decisions on leave of absence for registered students, deferment of registration and readmission**

1. It is mandatory for all fulltime students of the University to register for their academic programs and attend regularly to the prescribed work of their academic program without discontinuity, to the satisfaction of the Dean of the Faculty, barring compelling circumstances.
2. Whenever a student fails or is unable to attend an academic program for over one month, the student or his/her parent/guardian should inform as soon as such inability is recognized this to the Dean of the Faculty concerned. However, within 2 weeks of such notice, the student should ensure to send a written communiqué to this effect to the Dean or the Assistant Registrar of the Faculty. Registered students who fail to do

so will be considered to have abandoned their academic programs and their requests for re-admission will not be entertained.

3. If any student wishes to get his/her registration deferred at the time of registration, he/she shall inform the University giving reasons for such deferment and obtain permission from the University. The University may not grant permission if the reasons given are not acceptable.
4. When the above requests (2), (3) are granted, the period of deferment/leave shall not exceed one academic year except on approved medical grounds. The period of deferment/ leave granted on medical grounds shall not exceed two academic years. The period of deferment/ leave granted by the admissions committee will be exempted from the maximum duration allowed for an academic program. Such leave should have prior approval.
5. If a student fails to have his/her registration renewed within the period specified by the Faculty at the beginning of each academic year, his/her studentship will be cancelled.
6. When the registration of a student is cancelled, he/she shall be informed of such cancellation in writing.

### **15.3 Procedure approved by the University of Peradeniya for the acceptance of Medical Certificates submitted by students for work and examinations**

1. Students are requested to support the absence from course work or examination due to illness by a valid medical certificate conforming to the format of a medical certificate issued by a government hospital. Such medical certificates should be obtained from the following persons;
  - University Medical Officer (UMO)
  - District Medical Officer
  - Consultant Specialist in the particular field
  - Head of a Government Base Hospital
  - Medical Superintendent of a Provincial Ayurvedic Government Hospital
  - Ayurvedic Physician registered in the Council

\* Under exceptional circumstances, medical certificates issued by private hospitals or registered private practitioners could be considered by the University Medical Board.
2. Students who fall ill during sessions or examination time should contact the University Medical Officer at the University Health Centre immediately.

If a student falls sick at home or elsewhere during sessions or examination time he/she or his/her guardian should inform the Dean of the respective Faculty within seven (7) days by telegram/fax/e-mail followed by a letter indicating the nature of the illness and the name of the attending doctor etc. Medical certificate supporting the illness of the student also should be sent to the Dean.

\* Under exceptional circumstances if a student was not able to meet the deadline mentioned above, he/she could send his/her appeal to the relevant Faculty Board

The Dean on receipt of such medical certificate/s should follow the following procedure:

- I. In case of Western Medical Certificates submitted by students to cover absence from coursework or examination:
  - a. The medical certificate should be referred to the Chief Medical Officer (CMO) of the University for his/her observations and recommendations.
  - b. The CMO in turn examines the certificate and if he/she wishes could summon the student for examination and thereafter send his/her observations, recommendations to the Dean.
  - c. In cases where the CMO wishes to convene the Western Medical Board he/she may make arrangements to convene the Western Medical Board and refer the recommendations of the Board to the Dean.
  - d. The Dean on receipt of such recommendations from the CMO or Western Medical Board should send it to the Faculty Board for ratification.
  
- II. In the case of Ayurvedic Medical Certificates submitted by students to cover absence from course work or examinations the following procedure should be followed:
  - a. Ayurvedic medical certificates submitted by student in respect of absence from examinations or course work should be circulated among the members of the Ayurvedic Medical Board for their observations by the Senior Assistant Registrar/ Assistant Registrar in charge of student registration of each Faculty in consultation with the Deans of the respective Faculties.
  - b. Each member of the Ayurvedic Medical Board may send his/her observations and recommendations on the face of the medical certificate to the Dean of the respective Faculty through the Senior Assistant Registrar/ Assistant Registrar of the Faculty.
  - c. In case where the opinion of the members of the Ayurvedic Medical Board vary the Senior Assistant Registrar/ Assistant Registrar of the Faculty in consultation with the Dean of the Faculty may take steps to convene a meeting of the Ayurvedic Medical Board
  - d. If the members of the Ayurvedic Medical Board think that the medical certificates should be examined at a meeting of the Board, the Dean of the Faculty should be informed accordingly.
  - e. If the members wish to examine students concerned, they could be summoned before the Medical Board through the Senior Assistant Registrar/ Assistant Registrar of the Faculty.
  - f. The recommendation of the Ayurvedic Medical Board should be sent to the Faculty Board through the Dean of the Faculty for ratification.
  - g. The original copies of the Ayurvedic Medical Certificate submitted by students should be kept in the files of the students concerned and copies of such certificates should be sent to the Chief Medical Officer for purposes of record.
  
3. There shall be two Medical Boards in the University, viz. Western Medical Board and Ayurvedic Medical Board.

**A. Western Medical Board**

Terms of Reference

- a. The Western Medical Board shall consider cases where the Chief Medical Officer of the University has doubt about the validity of the grounds (including medical certificate) upon which the request of students to be excused for absence from course work or examinations.
- b. The Chief Medical Officer of the University shall convene the Western Medical Board if and when necessary.
- c. The Board has the right to call students before the Board when necessary for purposes of interview, examination and investigations.
- d. Recommendations of the Medical Board should be sent to the Faculty Board through the Dean of the respective Faculty,
- e. The Western Medical Board should consist of the Heads of the Departments of Medicine, Surgery and Psychiatry of the Faculty of Medicine or their nominees and the CMO of the University.

**B. Ayurvedic Medical Board**

Composition

The Ayurvedic Medical Board shall consist of three (3) persons appointed by the senate of the University.

Terms of Reference

- a. The Ayurvedic Medical Board shall consider Ayurvedic Medical Certificates submitted by students requesting exemption from examinations or course work and make recommendations to the Senate through the Deans of the respective Faculties.
- b. The Board shall meet at least once within a semester. The Senior Assistant Registrar/ Assistant Registrar in charge of student registration in consultation with the Dean of the respective Faculty shall convene meetings of the Ayurvedic Medical Board whenever necessary and co- ordinate the work between the Faculty and the Ayurvedic Medical Board.
- c. The board has the right to call students before the Board when necessary for purposes of interviews, examination and investigations. Such requests should be sent to the students through the Senior Assistant Registrar/ Assistant Registrar in charge of student registration of each Faculty.

### **Guidelines for the Functioning of the Ayurvedic Medical Board**

- a. When accepting Ayurvedic Medical Certificates, caution is to be exercised by accepting from only those who are registered in the Ayurvedic Medical Council.
  - b. General or Special registered Ayurvedic Medical Practitioners could recommend on anyone occasion leave up to 14 days at a stretch. Those with more than the above amount should get an endorsement from the Medical Officer in charge of the closest Government Ayurvedic Hospital or Government Ayurvedic Dispensary.
  - c. The decision on leave stipulated in Medical Certificates from Ayurvedic Hospitals, Government Dispensaries or Local Government Ayurvedic Dispensaries rests with the Board.
  - d. This Board possesses the right to question the validity of any Ayurvedic Medical Certificate.
  - e. The Board possesses the right to summon before them any student submitting an Ayurvedic Medical Certificate, if necessary.
4. When students request exemption from examinations or course work upon the basis of illness, the ultimate decision on question of exemption, repetition of course and of eligibility for honours, shall be the functions of the relevant Faculty Board upon the recommendation of the Medical Board or the Chief Medical Officer.

### **16 Student Counselling Service**

The University maintains a student counseling service to assist students who require guidance pertaining to academic, social or personal matters. The Unit is located in the Student Services Centre and is headed by a Director of Student Counseling. Services are offered by senior members of the academic staff. This service is used by many students and is completely confidential in nature.

This may be the first time you are away from home. It's natural to be worried when you are in an unfamiliar environment facing new experiences.

You are not alone! Talking about your fears and anxieties will give relief. A student counsellor has been appointed by the FVMAS to address such concerns. The counselor may be contacted through the office of the Student Counsellor. The five academic staff members who are Senior Student Counsellors are also available to assist students.

### **17 Academic Mentors**

An academic mentor will guide students throughout the undergraduate period to achieve their highest potential. They not only help students overcome any difficulties they face but also guide the high achievers to reach their goals. During the orientation period, a small group of students will be allocated to one academic staff member who will be the Academic Mentor throughout the undergraduate period. Academic mentoring offers students the opportunity to discuss specific academic concerns with an academic staff member, at a personal and individual level. They may offer suggestions on strategies to improve academic performance or address other issues interfering with academic performance. This opportunity may be used

not only to discuss academic performance but also to discuss any other problems encountered. Academic mentors will also direct students to relevant people who may provide further assistance. It is important that students meet the mentor at least once a semester.

## **18 Other important information for students**

Each new student who joins the Faculty of Veterinary Medicine & Animal Science would come under the care of a mentor in the staff, to whom the student could request for any assistance. Students are required to find out the relevant mentor from the list displayed in the Faculty premises.

“Ragging” is totally banned and is illegal in the University. If a student is harassed by any student, the incident should be brought to the notice of the Dean or Deputy Proctor or Student Counsellors or any other academic staff member in the Faculty. New students do not have to obey the senior students or do anything against their wish. Please be informed that ragging is a punishable offence under the penal code and may result in imprisonment.

### **Student identity card & record books**

- The Faculty issue an identity card and a record book for all registered students.
- The University identity card is issued by the student registration branch of the University.

### **In case of loss of the faculty identity card**

- When an identity card is misplaced or lost, the bearer should inform the Dean of the Faculty through the relevant Head of the Department.
- The Department of Basic Veterinary Sciences will issue a new Identity card on the recommendation of the Dean.

### **In case of loss of the University identity card**

- Forward a request letter describing the issue related to losing the Identity card to Dean through the relevant Head of the Department.
- Make a complaint at the nearest police station along with the studentship letter issued by the Dean and obtain a police report.
- Make a complaint to University Security Division and obtain a report.
- Make a payment of Rs. 1000 to the University Shroff counter.
- Handover student request to obtain a new identity card to the student registration branch along with the above reports, studentship letter and paying voucher.

### **In case of loss of the Student Record Book**

- Forward a request letter to the Dean through the relevant Head of the Department.
- Make a complaint to the nearest police station along with the studentship letter issued by the Dean of the Faculty.
- Make a complaint to the University Security Division.
- Pay Rs. 100 to the University Shroff Counter
- Handover all of the above reports along with the paying voucher to the Faculty Student Services Branch.

## Student Requests

- Students are allowed to make inquiries, complaints or any other requests that directly affect their student life at the University to the Dean of the Faculty.
- Student shall forward their requests through Student Counsellors or Mentors and relevant Head of the Department to the Dean of the Faculty.

## 19 Veterinary Students' Oath

*“As a Veterinary student, I promise to pursue my education diligently to develop my scientific knowledge and skills for the benefit of the society through the protection of animal health, the relief of pain & suffering, the conservation of animal resources, the promotion of public Health, and the advancement of Veterinary medical knowledge.*

*I will conduct myself with dignity and professionalism, in keeping with veterinary medical ethics. I will learn to practice veterinary medicine as a profession- and not as a trade. I promise to put the interest of the patients under my care before my own, to treat with empathy, compassion and respect.*

*I will always maintain proper etiquette, be punctual, respect staff and co-workers and follow the rules and regulations of the University. I will always lend a hand to those in need, will tolerate views of others and maintain a healthy learning atmosphere within the Faculty.*

*I will continue- to improve my professional knowledge and competence and will always strive to be worthy of the privilege of being a doctor.”*



## 20 Faculty Website

**Web Address:** <http://vet.pdn.ac.lk/>

## 21 Faculty e- Learning System -Moodle

How to access

Click on e-learning on the faculty website homepage or type [www.vetmoodle.pdn.ac.lk](http://www.vetmoodle.pdn.ac.lk)

VeLS You are not logged in.

### FVMAS e-Learning System

[Home](#) > [Log in to the site](#)

#### Log in

Username

Password

Remember username

[Forgotten your username or password?](#)

[Cookies must be enabled in your browser](#)

Some courses may allow guest access

#### Is this your first time here?

- To use E- Learning System of the Faculty of Veterinary Medicine & Animal Science, you need to enter the Username and Password. **your user name is your student Registration Number. for example VS01001**
- If you don't have an account and password with Veterinary E- Learning System (VeLS) please contact Mr. Ganganath Harischandra( phone ext. 5880 or email [ganganath@pdn.ac.lk](mailto:ganganath@pdn.ac.lk)) to register for a new account.

The Faculty of Veterinary Medicine & Animal Science is the only Higher Educational Institution in Sri Lanka which trains Veterinary Surgeons. The degree of Bachelor of Veterinary Science (BVSc) is awarded after four year period of study. The rigorous training program imparts knowledge of all aspects of animal health and production and includes the study of Pet Animals, Livestock, Wildlife and Aquatic species. At the present time approximately hundred Students enroll in the program each year. The degree is recognized by the Veterinary Council for Sri Lanka for Registration to practice as a Veterinary Surgeon.

- [e-Learning](#)
- [Veterinary Library](#)
- [Downloads](#)
- [Academic Transcript](#)

#### News

**White Coat Ceremony**  
Veterinary White Coat Ceremony was held on 18th October 2017 at the Auditorium in the Department of Farm Animal Production & Health, Faculty of Veterinary Medicine & Animal Science.  
2017-10-19 [More](#)

**Awareness Programme**  
An awareness programme on quality assurance activities and programme review was conducted for the academic staff of the Faculty.  
2017-11-08 [More](#)

#### Notices

**Gold Medal**  
Applications are calling for the Peradeniya University Gold-medal (Faculty of Veterinary Medicine & Animal Science) for Excellence in Scholastic and Extra-mural Excellence from the students those who have First or Second Class (Upper Division) from 2009/2010 batch. **Closing date: 08th December 2017**  
2017-11-28 [More](#)

#### Events

**Seminar**  
The Department of Veterinary Clinical Sciences has organized a Seminar on "Veterinary – Oncology, Diagnostic, Clinical pathology, Radiology, Toxicology/Management/ radiation therapy" on Friday 18th November 2017 at 08:00 am - 7:30 pm. The venue will be the Auditorium of the Farm Animal Production and Health, Faculty of Veterinary Medicine. The Seminar will be conducted by Dr. Pradeep Chandral, BVSc, D.M.M.L., PhD J. . All are Welcome.  
2017-11-08 [More](#)

## **22 THE UNIVERSITIES ACT NO.16 OF 1978**

By – laws made by the Council of the University of Peradeniya under section 29(n) read with Section 135(1) (d) of the Universities Act N.16 of 1978

### **BY-LAWS**

#### **PART 1 – GENERAL**

1. These By – laws may be cited in the “By – laws No. 01 of 1996, relating to Students Discipline” and shall come into operation on 26<sup>th</sup> October 1996. These By – laws supersede any other By – laws or Regulation that may have been issued to students earlier.
2. Notwithstanding anything to the contrary in any of the provisions of these By – laws, the Vice-chancellor shall take appropriate action he deems necessary to maintain discipline at the university and nothing in these By-laws shall be conferred in a manner to detract from the powers, duties and functions conferred or imposed upon the vice-Chancellor by the Universities Act No.16 of 1978 [hereinafter referred to as the “Act”] or by any other Instrument.
3.
  - i) Upon the coming into operation of these By-laws, there shall be established a Board of Discipline [hereinafter referred to as the “Board”] constituted as provided in Sub-paragraph
  - ii) The Board of Discipline shall consist of the following Members, who shall hold office for a period of 03 (three) years with effect from the date of appointment.
    - a) The Dean of each Faculty.
    - b) A Proctor, if any, or a Deputy Proctor nominated by the Proctor.
    - c) Two Wardens nominated by Vice-Chancellor.
    - d) Two members of the Council nominated by the Council, from among its appointed members.
    - e) Two Senior Students Counselors nominated by the Vice-Chancellor.
  - iii) The Registrar or his nominee shall be the ex-office Secretary of the Board.
  - iv) The Chairman of the Board shall be elected by the members from among the Dean and he shall preside at all meeting of the Board. If the Chairman is unable to reside at a meeting the members shall elect any Dean to preside at such meeting.
  - v) The Chairman shall hold office for a period of one year reckoned from the date of his election so long as he retains the status of membership by virtue of which he was eligible for re-election.
  - vi) The quorum for the meeting of the Board shall be seven members.
4. Subject to the provisions of the Act, and of any other appropriate instrument, the Board shall have the following powers, duties and functions.

- i) To regulate and determine all matters concerning the maintenance of students discipline within the University;
- ii) To make Rules pertaining to student discipline within the University;
- iii) To hold inquiries or cause inquiries to be held pertaining to allegations of indiscipline or misconduct on the part of any student or students of the University;
- iv) The Vice-Chancellor may appoint a Committee of Inquiry to inquire into an incident where he thinks it appropriate in the circumstances and the Board of Discipline shall consider such reports made by such committee and recommend appropriate action.
- v) To impose appropriate penalties or punishments, on any student or students who have been found guilty of any acts of indiscipline or misconduct or who have been found guilty of an offence under these By-laws or, of acting in contravention of the provisions of these By-laws or the Rules made by the Board;
- vi) To do such other acts incidental to the powers aforesaid, as may be required in order to further the objectives of these By-laws.

## **PART II**

1. Without prejudice to the generality of the powers duties and functions conferred upon or imposed in the Council by the Act or any other Instrument, the Council shall be responsible for the administration and implementation of these By-laws.
2.
  - i) These By-laws shall apply to every Registered Student of the University of Peradeniya [hereinafter referred to as the “University”]
  - ii)
    - a) For the purpose of these By-laws “Registered Student of the University who had already been duly admitted and registered at the University, for any academic year or any student who is duly admitted and registered from time to time in respect of any academic year, or other period of study.
    - b) “Academic Year” for the purpose of these By-laws shall be construed to mean the academic year as decided by the Senate from time to time.
  - iii)
    - a) Every student of the University shall be of good behavior and shall at all times conduct himself in an orderly manner befitting the status of an undergraduate or graduate student.
    - b) Students of the University shall at all times Endeavour to safeguard the dignity, good name and reputation of the University.
3. Students are admitted and registered as undergraduates or graduate students of the University, subject to their good behavior and the observance of strict discipline.
4. Each and every student duly registered as a student of the University, shall be issued with a copy of these By-laws, the provisions of which will be binding on him in conformity

with the declaration made by him in terms of Section 17(b) of the application for University admission submitted by him to the University Grants Commission.

5. Upon the receipt of an application on the prescribed form for registration as a student of the University together with such other officer as may be nominated by him for this purpose shall register such students and shall issue to the student so registered an Identity Card and a Student's Record Book bearing the photograph of the student concerned duly embossed with the seal of the University which shall be final and conclusive evidence particulars stated therein.
6. Every registered student of the University shall have in his possession either such Identity Card or Student's Record Book which he shall produce when called upon to do by a member of the academic staff or by any officer authorized by the Vice-Chancellor or Registrar for this purpose.
7. If any registered student shall fail to produce or willfully refuses to produce or neglects to produce such Identity Card or student's Record Book when called upon to do so by an authorized officer of the University, such student shall be deemed to be guilty of an offence punishable under these By-laws.
8. In the event of the failure or the refusal to produce such identity Card or Student's Record Book to an member of the academic staff or an authorized officer, such officer shall have the power to take such student to custody and to produce him before the Dean of the respective faculty or, warden of the respective Hall of Residence of such student if he claims to be residing in a Hall of Residence for identification. In the event of such students not being a resident of a hall of Residence, such student may be produced before the marshal/Chief Security Officer, who shall report him to the proctor for appropriate action.
9. The particulars stated in the Identity Card or Student's Record Book shall be deemed to contain prima facie evidence of the student and shall be in the manner prescribed in Schedule I of these By-laws.
10.
  - i) The Dean of each Faculty of the University shall have full power and authority to exercise supervisory control over the discipline of all students within the Faculty.
  - ii) The vice-chancellor may appoint a senior academic member as the Proctor of the University, and he shall act on behalf of the Vice-Chancellor in matters of student discipline within the University. The Vice-Chancellor may delegate any of his powers and duties regarding student discipline within the University to the Proctor.
  - iii) The Vice-Chancellor may, in consultation with the Dean and the Proctor, appoint a member of the academic staff of each Faculty as the Deputy Proctor for such Faculty.
  - iv) The Deputy Proctor may be appointed by the Vice-Chancellor in consultation with the Dean and the respective Faculty.
11. For the purpose of exercising the powers conferred upon the Dean by the preceding paragraph the Dean may issue from to time to time instructions as he deems necessary for the maintenance of discipline in such Faculty.

12. Where the Dean of a Faculty of the University is satisfied that there is a likelihood of the breakdown of the smooth functioning of his Faculty due to the disorderly behavior or conduct on the part of a student or students the Dean may take immediate remedial measures with the assistance of the Proctor and his Deputies to prevent a breakdown of the functioning of the Faculty by-laws.
  - i) Reprimanding such student or students for disorderly behavior, or
  - ii) Suspension of such student or students from the University or from attending lectures/courses, etc., for a period not exceeding two weeks.
  - iii) Reprimanding to the Vice-Chancellor for action such behavior of a student or students where a Dean is of the opinion that the incident is of such nature that it requires the intervention of the University authorities for appropriate action under the By-laws of the University.
13. The Dean shall report to the Vice-Chancellor and the Proctor any disciplinary action taken by the Dean under these By-laws.
14. Upon the coming into operation of these By-laws the University shall have full power and authority to consider and assess the conduct of each student in determining the eligibility of such student for the conferment on him of the degree, diploma, certificate or other academic distinction.
15. Every registered student shall be bound to protect and safeguard the property of the University. "property" for this purpose includes buildings, libraries, lecture halls, furniture, equipment, and all other movable and immovable assets of the University.
16. If in the event of any student being found guilty of damaging or destroying or attempting to damage or destroy the property of the University, he shall be deemed to have committed an offence and shall be dealt with in accordance with the provisions of these By-laws.
17. Every student shall Endeavour to foster a corporate and community spirit of life and shall always respect the liberty, freedom and personality of fellow students.
18. No student shall engage in anti-social actions or in any action calculated to humiliate, ridicule, hurt or harass a fellow student, or any other person with the University or engage in any other anti-social conduct which may bring the University into disrepute.
19. No student shall incite provoke or aid and abet any other student in the commission of any of the acts specified herein before
20. Any student who acts in violation of paragraph 6(3)(a) &(b) and 21 to 24 of these By-laws shall be guilty of an offence punishable under the provisions of these By-laws.
21.
  - i) No meeting may be held within the University premises by any student or students, University Union or society or other association of students of the University except with the written approval of the Proctor. The Dean of the Faculty may permit the holding of a meeting of the Faculty students, Faculty Unit or Society where it is restricted to the Students of such Faculty.

- ii) Where the approval of the Dean/Proctor, as the case may be, has been so granted subject to such terms and conditions relating to the venue and date of such meeting and its duration and any other matter as may be deemed to be necessary in the circumstances, the meeting must be held in conformity with all such terms and conditions.
- iii) Any student who summons or causes the holding of a meeting other than in the manner prescribed in the foregoing paragraph or aids and abets any other person to summon or hold such meeting, shall be guilty of an offence and shall be liable for punishment, under the provisions of these By-laws.
  - a) Unless the prior written consent of the Vice-Chancellor has been obtained, no subscription or currency may be collected from among the students, staff of the University or the general public by any student or office-bearer of any union, society or association.
  - b) Provided, however, that the provision of this paragraph shall not apply to a subscription collected by a registered union, society or association in accordance with its Constitution or any By-laws made in terms of Section 115(2) of the Act.

22.

- i) No notice, pamphlet, publication or printed material detrimental to the good name and discipline of the University, words or defamatory of any member of the staff or students of the University, may be published and/or distributed, circulated or exhibited in any hall of Residence, Lecture Hall/Room, Laboratory or on any other building or any other property standing on the premises of the University within its territorial boundaries.
- ii) Provided, however, that the provision of this paragraph shall to notices, pamphlets, publications and printed material relating to the activities of any registered Student's Union, Society or other Association established and recognized under Section 115 of the Act and intended solely for the furthering of academic or social objectives.
- iii) Provided that such material shall not be detrimental to the good name and discipline of the University, or any member of the staff or student of the University.

23. The Board of Discipline may for any breach of these By-laws or for any offence punishable under the provisions of these By-laws by any registered student, recommend to the Vice-Chancellor the imposing on him of any one or more of the following punishments.

- i) A written warning or a severe reprimand.
- ii) Suspension from the University.
- iii) Withdrawal of residential facilities and accommodation.
- iv) Withdrawal, cancellation or suspension of any financial benefits, assistance or award under the Mahapola Scholarship Scheme, any Bursary Scheme or Endowed Scholarship Scheme.
- v) Disqualification from sitting any University Examination for a specific period.

- vi) Suspension of the release of the result of any University Examination for a specific period.
- vii) Expulsion from the University.

24.

- i) The Board of Discipline or any Committee of inquiry appointed by the Board or the Vice-Chancellor for purposes set out in paragraph 4(iii) or 4(iv) shall have the power to summon any student of the University, to attend any Inquiry or to give evidence thereat and to direct any student to make a written statement concerning any matter pertaining to his conduct or behavior or to the conduct or behavior of any other student within the University.
- ii) Such Committee of Inquiry shall conduct such inquiries in accordance with the rules of natural justice as far as possible.
- iii) Before the commencement of such inquiry, every accused student shall be informed of the charge against him to be tried at the inquiry before him Committee of Inquiry.
- iv) An accused student shall be allowed to be present either in person or with a representative of the Peradeniya Student's Union or the respective Faculty Student's Union, at the inquiry, and may also be allowed to suggest to the Chairman of the Committee of Inquiry any questions that may be put to any person who testifies before the Committee of Inquiry.
- v) The Chairman of the Committee of Inquiry may at his discretion put to the witness such questions suggested by or on behalf of the accused student.
- vi) Under exceptional circumstances the Chairman of the Committee of Inquiry may allow the witnesses to give evidence in camera.

25.

- i) Upon the declaration of an order of closure of the University by the University authorities every student of the University shall be bound to act in accordance with this order and shall leave the University premises before the stipulated time specified in such order.
- ii) Any student on who acts in contravention of the provisions of the foregoing paragraph shall be deemed to have committed an offense and shall be liable to be punished in accordance with the provisions of these By-Laws.

26.

- i) Any student on whom a punishment has been imposed by the Vice-Chancellor on the recommendation of the Board of Discipline and who is aggrieved by the decision of the Board regarding the punishment mat, within a period of one month from the date of communication to him of such punishment or penalty, appeal against such punishment or penalty to the vice-Chancellor.
- ii) Upon the receipt of an appeal, the Vice-Chancellor shall refer such appeal to an Appeals Committee appointed by him.

- iii) The Appeals Committee, for the purposes of the above paragraph, shall consist of three persons of legal/academic eminence appointed by the Vice-Chancellor.

The Appeals Committee shall have the power to review the decision of the Board of Discipline regarding the punishments imposed and may either affirm, vary or set aside the decision regarding the punishment.

27.

- i) It would be the duty of a Warden of a Hall of Residence to impose discipline among the students of the Hall of Residence and act in consultation with the Proctor regarding to student discipline in the Hall of Residence.
- ii) A Warden of a Hall of Residence shall inquire into complaints of breach of discipline and take appropriate action by himself where the act of indiscipline is not of a serious nature and may impose any of the following punishments.
  - a) Suspension from the Hall of Residence for period not exceeding two weeks.
  - b) A written warning.
- i) In every case in which a Warden acts under the above provisions, he shall submit a report to the Proctor and shall act in consultation with the Proctor. Where the Proctor is of the view that the breach of discipline is of such nature that it calls for his intervention, he may act in the manner laid down in these By-laws.
- ii) Any student who is aggrieved by the punishment imposed by a Warden shall have the right to appeal to the Vice-Chancellor forthwith, and the Vice-Chancellor instruct the Proctor to the nature of the incident.

28.

- i) The Dean of a faculty shall pose discipline among the students of the Faculty and shall act in consultation with the Proctor and Deputy Proctor of the Faculty regarding matters pertaining to student discipline in his faculty.
- ii) The Dean of a Faculty shall inquire into complaints of breach of discipline and take appropriate action by himself where the act of indiscipline is of such a nature that it could be adequately dealt with by imposing any of the following punishments.
  - a) Suspension from academic activities for a period not exceeding two weeks.
  - b) A written warning
- i) In every case in which Dean acts under the above provisions, he shall submit a report to the Proctor.
- ii) Any student who is aggrieved by the punishments imposed by a Dean of a Faculty shall have the right to appeal to the Vice-Chancellor who may review the punishment and/or order the conduct of a formal inquiry where he considers it desirable, depending on the nature of the incident.

29.

- i) Subject to the provisions of the Universities Act and other Statutes of the University, the Proctor shall be the authority in-charge of the maintenance of discipline among the students of the University.
- ii) In discharging the above duties, he shall act in consultation with the Vice-Chancellor and with the assistance of the Deputy Proctors.
- iii) The Proctor shall inquire into complaints of breach of discipline in the University and take appropriate action.
- iv) Where the incident of indiscipline is of such a nature that it can be adequately dealt with by the imposition of the following punishments, he may act by himself.
  - a) Suspension from the University for a Period not exceeding five weeks.
  - b) A written warning.
- i) In every case in which the Proctor acts under these provisions, he shall submit a report to the Vice-Chancellor.
- ii) Any student, who is aggrieved by the punishment imposed by the Proctor, shall have the right to appeal to the Vice-Chancellor forthwith and the Vice-Chancellor may review the punishment and/or order a formal inquiry where he considers it desirable.
- iii) In cases in which incidents of indiscipline are reported, the Proctor shall conduct a preliminary inquiry and submit his observations to the Vice-Chancellor for appropriate action under these By-laws.

30.

- i) A Deputy Proctor of a Faculty shall assist the Dean of the Faculty to maintain and impose discipline among students of the Faculty and shall report to the Dean regarding such matters.
- ii) A Deputy Proctor shall also assist the Proctor in the maintenance of discipline among the students of the University.

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*Please note that "He" denotes both sexes*