**Courses of distinct program in pet medicine and surgery**

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| **Title:** Pet AnimalsHistology | **Credit hours** | |
| **Code Number: PMS** 126 | **Lectures** | **Practical** |
| **Prerequisite courses:** 115 | 1 | 1(2) |
| **Course Contents:**  Immune system; Digestive system; Respiratory system; Urinary system; Male and fe­male reproductive system; Endocrine system. Comparative histology and organology. Structure in relation to function of organs of Pet animals. | | |

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| **Title:** Pet Animals Anatomy | **Credit hours** | |
| **Code Number: PMS** 216 | **Lectures** | **Practical** |
| **Prerequisite courses:** 126 | 1 | 1(2) |
| **Course Contents:**  A broad understanding of the development, structure and function. Anatomy of limbs; systematic and topographic. e.g., musculoskeletal, nervous, cardiovascular, immune. Structure of head & neck (topographic & systematic) of Pet animal. Developmental anatomy of systems & senses in Pet animals. Course content should be augmented with laboratory instruction in dissection methods | | |

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| **Title:**  Pet Animals Physiology | **Credit hours** | |
| **Code Number: PMS** 227 | **Lectures** | **Practical** |
| **Prerequisite courses:** 212 | 2 | 1(2) |
| Course Contents:  Physiological principles and techniques (laboratory) focusing on major systems within Pet animals.Nervous system & special senses; Autonomic nervous system; physiology of muscle & nerve; Physiology of digestion; Circulation; Respiration; Blood & body fluids. Endocrinology; Female reproduction; Physiology of mammary gland; Male physiology; Physiology of kidney; Metabolism; Growth Physiology of Pet animals. | | |

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| **Title:** Pet Animals Nutrition | **Credit hours** | |
| **Code Number: PMS** 317 | **Lectures** | **Practical** |
| **Prerequisite courses:**221 | 1 | 1(2) |
| **Course Contents:**  Principles of nutrition and vet. Dietetics of Pet animals; Chemical composition and evalua­tion of feedstuffs; Assimilation and utilization of nutrients. Nutrients inadequacy.; Feeding standards and Nutrients' requirements. Classification of feedstuffs; Feed supplements & additives. Feed processing. Commercial feeds and feed laws of Pet animals. | | |

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| **Title:** Pet Animals Pathology and Morbid Anatomy | **Credit hours** | |
| **Code Number: PMS** 327 | **Lectures** | **Practical** |
| **Prerequisite courses:** 313 | 1 | 1(2) |
| **Course Contents:**  Pathology of diseases affecting skin and its appendages; The musculoskele­tal system; The respiratory system; The cardio-vascular system; The hemic and lymphatic systems; The digestive system; The urinary system; The genital system; The nervous system and organs of special sense; Pathology of important infec­tious and non-infectious diseases of Pet animals. Necropsy techniques. Pathology of Bacterial, Viral, Parasitic and Mycotic Diseases of Pet animals. | | |

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| **Title:** Pet Animals Epidemiology | **Credit hours** | |
| **Code Number: PMS** 418 | **Lectures** | **Practical** |
| **Prerequisite courses:** No | 1 | 1(2) |
| **Course Contents:**  Pet animals’ epidemiology, including descriptive/analytical epidemiology and principles of risk analysis, and basic information needed, and techniques used, to conduct disease outbreak investigations and develop disease prevention programs. More advanced content will provide students with an introductory understanding of the design of epidemiology studies, to include pet animals outbreak investigation, epidemiologic data collection, management and analysis, use of epidemiological software, evaluation of analyses and critical evaluation of published information. | | |

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| **Title:** Pet Animals Anesthesia and Diagnostic Imabing | **Credit hours** | |
| **Code Number: PMS** 428 | **Lectures** | **Practical** |
| **Prerequisite courses:** No | 1 | 1(2) |
| **Course Contents:**  Preanesthetic; Local, regional and general anesthetics and Diagnostic imag­ing: radiography, sonography and Endoscopy in Pet animals’ practice. | | |

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| **Title:**  Pet Animals Reproduction | **Credit hours** | |
| **Code Number: PMS** 429 | **Lectures** | **Practical** |
| **Prerequisite courses:** No | 1 | 1(2) |
| **Course Contents:**  Pet Animals reproductive organs. The Oestrus cycle and patterns of reproduc­tion, ovigenesis, ovulation and fertilization in dogs and cats. Altering reproductive processes. Clinical examination; Methods of pregnancy diagnosis. Infertility in the pet animals. | | |

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| **Title:** Obstetric of farm &Pet animals | **Credit hours** | |
| **Code Number:** THE 514 | **Lectures** | **Practical** |
| **Prerequisite courses:** 424 | 2 | 1(3) |
| **Course Contents:**  Obstetrics: Physiology of Pregnancy; Normal birth; Norma! puerperium; Dystocia; Pathology of puerperium. | | |

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| **Title:** Pet Animals Orthopedic Surgery | **Credit hours** | |
| **Code Number: PMS** 528 | **Lectures** | **Practical** |
| **Prerequisite courses:**423 | 1 | 1(2) |
| **Course Contents:**  Introduction to fore and hind limbs affections of Pet animals. Joint and bone surgeries of Pet animals. | | |

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| **Title:** Pet Animals Infectious Diseases | **Credit hours** | |
| **Code Number: PMS** 529 | **Lectures** | **Practical** |
| **Prerequisite courses:** 512 | 1 | 1(2) |
| **Course Contents**  Clinical aspects; Epidemiology; Diagnosis and differential diagnosis of bacteri­al, viral, rickettsial and parasitic diseases of Pet animals and their Prevention and con­trol. | | |