

**NANAJI DESHMUKH VETERINARY SCIENCE UNIVERSITY, JABALPUR**  
**COURSE STRUCTURE: AT A GLANCE**

**DEPARTMENT OF VETERINARY ANATOMY AND HISTOLOGY**

**M.V.Sc.**

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
VAN- 601	COMPARATIVE OSTEOLOGY AND ARTHROLOGY	1+2	I
VAN- 602	COMPARATIVE SPLANCHNOLOGY	1+3	II
VAN- 603	MYOLOGY, ANGIOLOGY, NEUROLOGY AND ASTHESIOLOGY OF OX	2+2	I
VAN -604	GROSS ANATOMICAL TECHNIQUES	0+2	I
VAN -605	THEORY AND PRACTICE OF HISTOLOGICAL AND HISTOCHEMICAL TECHNIQUES	1+2	II
VAN -606	GENERAL HISTOLOGY AND ULTRASTRUCTURE	3+1	I
VAN- 607	SYSTEMIC HISTOLOGY AND ULTRASTRUCTURE	3+1	II
VAN –608	DEVELOPMENTAL ANATOMY	3+1	II
VAN - 691	MASTER'S SEMINAR	1+0	I/ II
VAN 699	MASTER'S RESEARCH	20	

**Ph.D.**

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
VAN-701	MYOLOGY, ANGIOLOGY, NEUROLOGY AND AESTHESIOLOGY OF EQUINE, CANINE AND PORCINE	0+ 3	II
VAN-702	PRINCIPLE AND APPLICATIONS OF BIOMECHANICS	2+0	II
VAN-703	AVIAN ANATOMY	1+2	II
VAN-704	NEUROANATOMY	3+1	I
VAN-705	ENDOCRINE ANATOMY	2+1	II
VAN-706	THEORY AND APPLICATION OF ELECTRON MICROSCOPE	2+1	I
VAN-707	HISTOENZYMOLOGY AND IMMUNOCYTOCHEMISTRY	2+1	II
VAN-708	APPLIED EMBRYOLOGY AND TERATOLOGY	1+2	I
VAN-709	FUNCTIONAL VETERINARY ANATOMY	2+0	I
VAN-710	GROSS ANATOMY OF LABORATORY ANIMALS	1+1	I
VAN-790	SPECIAL PROBLEM	0+2	I/II
VAN-791	DOCTORAL SEMINAR I	1+0	I/II
VAN-792	DOCTORAL SEMINAR II	1+0	I/II
VAN 799	DOCTORAL RESEARCH	45	

**VETERINARY PHYSIOLOGY****M.V.Sc.**

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
VPY 601	PHYSIOLOGY OF DIGESTION	2+1	II
VPY 602	CARDIOVASCULAR AND RESPIRATORY PHYSIOLOGY	2+1	I
VPY 603	RENAL PHYSIOLOGY AND BODY FLUID DYNAMICS	2+1	I
VPY 604	HAEMATOLOGY	2+1	II
VPY 605	VITAMINS AND MINERALS IN ANIMAL PHYSIOLOGY	2+0	I
VPY 606	PHYSIOLOGY OF ANIMAL REPRODUCTION	2+1	II
VPY 607	CLINICAL PHYSIOLOGY	2+1	I
VPY 608	NEUROMUSCULAR PHYSIOLOGY	2+1	II
VPY 609	CHEMICAL BIOREGULATION IN PHYSIOLOGICAL FUNCTIONS	3+0	I
VPY 610	RESEARCH TECHNIQUES IN VETERINARY PHYSIOLOGY	0+2	II
VPY 691	MASTER'S SEMINAR	1+0	I/II
VPY 699	MASTER'S RESEARCH	20	

**Ph. D**

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
VPY 701	APPLIED PHYSIOLOGY OF BODY FLUIDS AND ELECTROLYTES	2+1	I
VPY 702	PHYSIOLOGY OF ANIMAL BEHAVIOUR	2+0	II
VPY 703	COMPARATIVE PHYSIOLOGY OF RUMINANT DIGESTION	2+1	I
VPY 704	ADVANCES IN NEURO-ENDOCRINOLOGY	2+1	I
VPY 705	MYOPHYSIOLOGY AND KINESIOLOGY	2+1	I
VPY 706	AVIAN PHYSIOLOGY	2+1	II
VPY 707	PHYSIOLOGY OF LACTATION	2+1	I
VPY 708	ADVANCES IN ENVIRONMENTAL PHYSIOLOGY AND GROWTH	2+1	II
VPY 709	ADVANCES IN RUMEN MICROBIOLOGY AND METABOLISM	2+1	II
VPY 710	ADVANCES IN IMMUNOPHYSIOLOGY	2+1	II
VPY 711	PHYSIOLOGY OF STRESS	2+1	I
VPY 790	SPECIAL PROBLEM	0+2	I / II
VPY 791	DOCTORAL SEMINAR - I	1+0	I / II
VPY 792	DOCTORAL SEMINAR - II	1+0	I / II
VPY 799	DOCTORAL RESEARCH	45	

**DEPARTMENT OF VETERINARY BIOCHEMISTRY**

**M.V.Sc.**

<b>COURSE NO.</b>	<b>TITLE OF THE COURSE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
VBC 601	CHEMISTRY OF ANIMAL CELL	2+0	I
VBC 602	TECHNIQUES IN BIOCHEMISTRY	0+2	I
VBC 603	APPLICATIONS OF GENOMICS AND PROTEOMICS IN MOLECULAR BIOLOGY	2+0	II
VBC 604	BIOCHEMISTRY OF BIOMOLECULES: CARBOHYDRATES, LIPIDS AND MEMBRANE'S STRUCTURE	2+0	I
VBC 605	ENZYME CATALYSIS, KINETICS, INHIBITION AND REGULATION	2+0	II
VBC 606	METABOLISM-I CARBOHYDRATES AND LIPIDS	2+0	I
VBC 607	METABOLISM-II: NUCLEIC ACIDS AND AMINO ACIDS	2+0	I
VBC 608	METABOLISM-III: INTEGRATION AND REGULATION	2+0	I
VBC 609	CENTRAL DOGMA AND PROTEIN FUNCTION	2+0	II
VBC 610	CLINICAL BIOCHEMISTRY OF ANIMALS	2+1	II
VBC 611	BIOCHEMICAL BASIS OF DISEASES OF DOMESTIC ANIMALS	2+0	I
VBC 612	ENDOCRINOLOGY AND REPRODUCTIVE BIOCHEMISTRY	2+0	II
VBC 613	BIOCHEMICAL BASIS OF ANIMAL PRODUCTION	2+1	II
VBC 691	MASTER'S SEMINAR	1+0	I/II
VBC 699	MASTER'S RESEARCH	20	

**Ph.D.**

<b>COURSE NO.</b>	<b>TITLE OF THE COURSE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
VBC 701	ADVANCES IN BIOCHEMISTRY OF RUMINANT DISORDERS	2+0	II
VBC 702	ADVANCES IN ENZYMOLOGY	2+0	I
VBC 703	ADVANCES IN CLINICAL BIOCHEMISTRY	0+2	II
VBC 704	MEMBRANE DYNAMICS AND SIGNAL TRANSDUCTION IN ANIMAL CELL	2+0	I
VBC 705	METHODS IN PROTEIN ANALYSIS	2+1	II
VBC 706	NUTRITIONAL BIOCHEMISTRY	2+0	I
VBC 707	ADVANCES IN INTERMEDIARY METABOLISM	2+0	II
VBC 708	ENDOCRINE CONTROL OF FUEL METABOLISM	2+0	II
VBC-709	DIAGNOSTIC ENZYMOLOGY-I	2+0	I
VBC-710	DIAGNOSTIC ENZYMOLOGY-II	2+0	II
VBC 711	BIOCHEMISTRY OF DEVELOPMENT AND DIFFERENTIATION	2+0	I
VBC 712	ADVANCES IN TECHNIQUES IN BIOCHEMISTRY	0+2	I
VBC 713	ADVANCE IN MINERAL, VITAMIN METABOLISM AND RELATED DISEASES	2+0	I
VBC 790	SPECIAL PROBLEM	0+2	I / II
VBC 791	DOCTORAL SEMINAR	1+0	I / II
VBC 792	DOCTORAL SEMINAR	1+0	I / II
VBC 799	DOCTORAL RESEARCH	45	

**DEPARTMENTO OF VETERINARY PATHOLOGY**

**M.V.Sc.**

Course No.	Title of course	Credits	SEMESTER
VPP 601	GENERAL PATHOLOGY	2+1	I
VPP 602	TECHNIQUES IN PATHOLOGY	1+1	I
VPP 603	ANIMAL ONCOLOGY	1+1	I
VPP 604	CLINICAL PATHOLOGY	1+2	I
VPP 605	NECROPSY PROCEDURE AND INTERPRETATIONS - I	0+1	I
VPP 606	NECROPSY PROCEDURE AND INTERPRETATIONS - II	0+1	II
VPP 607	SYSTEMIC PATHOLOGY	2+1	I
VPP 608	PATHOLOGY OF INFECTIOUS DISEASES OF DOMESTIC ANIMALS	2+1	II
VPP 609	TOXICOPATHOLOGY	2+1	II
VPP 610	AVIAN PATHOLOGY	2+1	II
VPP 611	PATHOLOGY OF LABORATORY ANIMALS, FISH AND WILD ANIMALS	2+1	II
VPP 612	VETEROLEGAL PATHOLOGY	1+0	I
VPP 691	MASTER'S SEMINAR	1+0	I/II
VPP 699	MASTER'S RESEARCH	20	

**Ph.D.**

Courses	Name of courses	Credit Hours	Semester
VPP701	PATHOLOGY OF NUTRITIONAL AND METABOLIC DISTURBANCES	2+1	II
VPP702	ADVANCES IN TOXICOPATHOLOGY	1+2	I
VPP703	ADVANCES IN DIAGNOSTIC PATHOLOGY	1+2	II
VPP704	ULTRASTRUCTURAL PATHOLOGY	1+1	I
VPP705	IMMUNOPATHOLOGY	2+1	II
VPP706	PATHOLOGY OF IMPORTANT AND EMERGING DISEASES OF PETS AND LIVESTOCK	1+1	I
VPP 707	ADVANCES IN AVIAN PATHOLOGY	2+1	II
VPP 708	PATHOLOGY OF FUNGAL DISEASES	2+1	I
VPP709	MOLECULAR PATHOLOGY OF CELL INJURY	2+1	II
VPP 710	EXPERIMENTAL PATHOLOGY	1+1	II
VPP 790	SPECIAL PROBLEM	0+2	I/II
VPP 791	DOCTORAL SEMINAR I	1+0	I/II
VPP 792	DOCTORAL SEMINAR II	1+0	I/II
VPP 799	DOCTORAL RESEARCH	45	

**VETERINARY MICROBIOLOGY**

**M.V.Sc.**

<b>COURSE NO.</b>	<b>COURSE TITLE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
VMC 601	BACTERIOLOGY – I	3+1	I
VMC 602	BACTERIOLOGY – II	3+1	II
VMC 603	VETERINARY MYCOLOGY	1+1	I
VMC 604	GENERAL VIROLOGY	2+1	I
VMC 605	SYSTEMATIC ANIMAL VIROLOGY	3+1	II
VMC 606	PRINCIPLES OF IMMUNOLOGY	2+1	I
VMC 607	VACCINOLOGY	2+0	II
VMC 608	DIAGNOSTICS OF INFECTIOUS DISEASES	1+2	I
VMC 609	TECHNIQUES IN MICROBIOLOGY AND IMMUNOLOGY	0+3	II
VMC 691	MASTER'S SEMINAR	1+0	I / II
VMC 699	MASTER'S RESEARCH	20	

**Ph.D.**

<b>COURSE NO.</b>	<b>COURSE TITLE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
VMC 701	ADVANCES IN BACTERIOLOGY	2+1	I
VMC 702	ADVANCES IN MYCOLOGY	2+1	I
VMC 703	BACTERIAL GENETICS	2+1	I
VMC 704	MICROBIAL TOXINS	2+1	I
VMC 705	MOLECULAR DETERMINANTS OF BACTERIAL PATHOGENESIS	2+1	I
VMC 706	ADVANCES IN VIROLOGY	2+1	I
VMC 707	MOLECULAR AND GENETIC ASPECTS OF VIRAL PATHOGENESIS	2+1	I
VMC 708	STRUCTURE FUNCTION RELATIONSHIP OF DNA AND RNA VIRUSES	3+0	I
VMC 709	ONCOGENIC VIRUSES	2+0	I
VMC 710	SLOW VIRAL INFECTIONS AND PRIONS	2+0	I
VMC 711	MOLECULAR IMMUNOLOGY	2+1	II
VMC 712	ADVANCES IN CELLULAR IMMUNOLOGY	2+1	II
VMC 713	CYTOKINES AND IMMUNOMODULATORS	2+0	II
VMC 714	ADVANCES IN VACCINOLOGY	2+0	II
VMC 715	ADVANCES IN IMMUNODIAGNOSTICS	1+1	II
VMC 716	MODERN IMMUNOTECHNOLOGY	1+2	II
VMC 717	CURRENT TOPICS IN INFECTION AND IMMUNITY	3+0	II
VMC 718	VETERINARY MICROBIAL BIOTECHNOLOGY	2+1	I
VMC 790	SPECIAL PROBLEM	0+2	I / II
VMC 791	DOCTORAL SEMINAR I	1+0	I / II
VMC 792	DOCTORAL SEMINAR II	1+0	I / II
VMC 799	DOCTORAL RESEARCH	45	

**VETERINARY PARASITOLOGY**

**M. V. SC.**

<b>COURSE NO.</b>	<b>TITLE OF THE COURSE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
VPA 601	VETERINARY HELMINTHOLOGY-I	2+1	I
VPA 602	VETERINARY HELMINTHOLOGY-II	2+1	I
VPA 603	VETERINARY ENTOMOLOGY AND ACAROLGY	2+1	I
VPA 604	VETERINARY PROTOZOOLOGY	2+1	II
VPA 605	PARASITOLOGICAL TECHNIQUES	0+2	I
VPA 606	CLINICAL PARASITOLOGY	1+1	II
VPA 607	TRENDS IN CONTROL OF LIVESTOCK AND POULTRY PARASITES	1+1	II
VPA 608	IMMUNOPARASITOLOGY	2+1	II
VPA 609	PARASITIC ZONOSSES	2+0	II
VPA 610	PARASITES OF ZOO AND WILD ANIMALS	2+1	II
VPA 611	MALACOLOGY	1+1	I
VPA 691	MASTER'S SEMINAR	1+0	I / II
VPA 699	MASTER'S RESEARCH	20	

**Ph. D.**

<b>COURSE NO.</b>	<b>TITLE OF THE COURSE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
VPA 701	APPLICATIONS OF REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM IN PARASITOLOGY	1+2	I
VPA 702	MOLECULAR DIAGNOSTICS AND VACCINE DEVELOPMENT IN PARASITOLOGY	2+1	II
VPA 703	HOST PARASITE INTERACTIONS	2+0	I
VPA 704	ADVANCES IN PROTOZOOLOGY	2+1	II
VPA 705	ADVANCES IN HELMINTHOLOGY-I	2+1	I
VPA 706	ADVANCES IN HELMINTHOLOGY-II	2+1	I
VPA 707	ADVANCES IN ENTOMOLOGY AND ACAROLGY	2+1	I
VPA 708	<i>IN VITRO</i> CULTIVATION OF PARASITES	1+2	II
VPA 709	EMERGING AND RE-EMERGING PARASITIC DISEASES	2+0	II
VPA 710	BIONOMICS OF PARASITES	3+0	II
VPA 711	ENVIRONMENTAL PARASITOLOGY	1+1	I
VPA 790	SPECIAL PROBLEM	0+2	I / II
VPA 791	DOCTORAL SEMINAR I	1+0	I / II
VPA 792	DOCTORAL SEMINAR II	1+0	I / II
VPA 799	DOCTORAL RESEARCH	15	

**VETERINARY PUBLIC HEALTH & EPIDEMIOLOGY****M.V.Sc.**

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
VPH 601	ELEMENTS OF VETERINARY PUBLIC HEALTH	1+1	II
VPH 602	BACTERIAL AND RICKETTSIAL AGENTS OF PUBLIC HEALTH SIGNIFICANCE	2+1	I
VPH 603	VIRAL, FUNGAL AND PARASITIC AGENTS OF PUBLIC HEALTH SIGNIFICANCE	2+1	I
VPH 604	ZOONOSES AND PUBLIC HEALTH	2+1	I
VPH 605	PRINCIPLES OF FOOD HYGIENE AND SAFETY	2+1	II
VPH 606	FOOD-BORNE INFECTIONS AND INTOXICATIONS	2+1	I
VPH 607	MEAT AND MILK HYGIENE	2+1	I
VPH 608	ENVIRONMENTAL POLLUTION AND SAFETY	3+1	II
VPH 609	FISH, FISH PRODUCTS AND SEAFOOD HYGIENE	1+1	II
VPH 610	BIOTERRORISM AND DISASTER MANAGEMENT	1+1	II
VPH 691	MASTER'S SEMINAR	1+0	I / II
VPH 699	MASTER'S RESEARCH	20	

**Ph.D.**

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
VPH 701	CURRENT TOPICS IN VETERINARY PUBLIC HEALTH	2+1	I
VPH 702	EMERGING AND REEMERGING ZOONOSES	2+1	I
VPH 703	QUALITY CONTROL OF ANIMAL FOOD PRODUCTS	2+1	I
VPH 704	OCCUPATIONAL HEALTH HAZARDS	2+1	I
VPH 705	DISPOSAL AND RECYCLING OF WASTE	2+1	II
VPH 706	BIOHAZARDS, BIOSECURITY AND DISASTER MANAGEMENT	2+0	II
VPH 707	FOOD PLANT SANITATION	2+1	II
VPH 708	ADVANCES IN ENVIRONMENTAL POLLUTION CONTROL	2+1	II
VPH 790	SPECIAL PROBLEM	0+2	I / II
VPH 791	DOCTORAL SEMINAR I	1+0	I / II
VPH 792	DOCTORAL SEMINAR II	1+0	I / II
VPH 799	DOCTORAL RESEARCH	45	

**VETERINARY PHARMACOLOGY & TOXICOLOGY****M.V.Sc.**

<b>COURSE NO.</b>	<b>TITLE OF THE COURSE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
VPT 601	GENERAL PHARMACOLOGY	2+0	I
VPT 602	AUTONOMIC AND AUTACOID PHARMACOLOGY	2+1	I
VPT 603	CNS PHARMACOLOGY	2+1	I
VPT 604	DIGESTIVE AND RESPIRATORY PHARMACOLOGY	2+0	II
VPT 605	CARDIOVASCULAR AND RENAL PHARMACOLOGY	2+0	II
VPT 606	ENDOCRINE AND REPRODUCTIVE PHARMACOLOGY	2+0	I
VPT 607	CHEMOTHERAPY	2+1	II
VPT 608	TOXICOLOGY OF XENOBIOTICS	2+1	II
VPT 609	TOXICOLOGY OF PLANTS AND TOXINS	2+0	I
VPT 610	PHARMACOLOGICAL TECHNIQUES	1+1	I
VPT 611	TECHNIQUES IN TOXICOLOGY	1+1	II
VPT 612	ETHNOPHARMACOLOGY	2+0	II
VPT 691	MASTER'S SEMINAR	1+0	I / II
VPT 699	MASTER'S RESEARCH	20	

**Ph.D.**

<b>COURSE NO</b>	<b>TITLE OF THE COURSE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
VPT 701	ADVANCES IN NEURO PHARMACOLOGY	2+0	I
VPT 702	AUTACOID PHARMACOLOGY	1+0	I
VPT 703	PHARMACOLOGY OF HERBAL DRUGS	2+1	I
VPT 704	DRUG METABOLISM	2+0	I
VPT 705	MOLECULAR PHARMACOLOGY	2+0	II
VPT 706	PHARMACOKINETICS	2+1	II
VPT 707	PHARMACOGENOMICS	2+0	II
VPT 708	IMMUNOPHARMACOLOGY	1+0	II
VPT 709	MOLECULAR TOXICOLOGY	2+0	II
VPT 710	CLINICAL PHARMACOLOGY	1+1	I
VPT 711	CLINICAL TOXICOLOGY	2+1	I
VPT 712	ECOTOXICOLOGY	2+0	II
VPT 713	REGULATORY TOXICOLOGY	2+1	I
VPT 790	SPECIAL PROBLEM	0+2	I/ II
VPT 791	DOCTORAL SEMINAR-I	1+0	I/ II
VPT 792	DOCTORAL SEMINAR-II	1+0	I/ II
VPT 799	DOCTORAL RESEARCH	45	



**DEPARTMENT OF VETERINARY MEDICINE**

**M.V.Sc.**

COURSE NO	COURSE TITLE	CREDIT HRS	SEMESTER
VM-601	RUMINANT MEDICINE- I	3+0	I
VM-602	RUMINANT MEDICINE- II	3+0	II
VM-603	DISEASES OF PRODUCTION AND MAMMARY GLAND OF DAIRY ANIMALS	2+0	I
VM-604	CANINE & FELINE MEDICINE- I	2+0	I
VM-605	CANINE & FELINE MEDICINE- II	2+0	II
VM-606	EQUINE MEDICINE	2+0	II
VM-607	VETERINARY NEONATOLOGY & PAEDIATRICS	2+0	I
VM-608	AVIAN MEDICINE	1+0	II
VM-609	SWINE MEDICINE (DISEASES OF ANIMAL SPECIES OF REGIONAL IMPORTANCE)	1+0	II
VM-610	ZOO, WILD & LABORATORY ANIMAL MEDICINE	2+0	I
VM-611	CLINICAL DIAGNOSTIC TECHNIQUES	0+2	II
VM-612	VETERINARY EMERGENCY MEDICINE	1+1	I
VM-613	DISEASES OF ANIMALS CAUSED BY TOXICANTS	1+0	II
VM-614	CLINICAL NUTRITION OF SICK ANIMALS	1+0	II
VM-615	VETERINARY JURISPRUDENCE AND ANIMAL WELFARE	1+0	I
VM-616	BIOSECURITY PRACTICES IN DISEASE PREVENTION	1+0	I
VM-617	CLINICAL PRACTICE- I	0+3	I
VM-618	CLINICAL PRACTICE- II	0+3	II
VM-691	MASTER'S SEMINAR	1+0	I / II
VM-699	MASTER'S RESEARCH	20	

ESSENTIAL COURSES (CREDIT HOURS 22): VM 601, 602, 603, 604, 605, 607, 611, 617, 618

**DEPARTMENT OF VETERINARY MEDICINE**

**Ph.D. COURSES**

COURSE NO	COURSE TITLE	CREDIT HRS.	SEMESTER
VM-701	ADVANCES IN FARM ANIMAL GASTROENTEROLOGY	2+0	I
VM-702	ADVANCES IN FARM ANIMAL NEUROLOGICAL AND MUSCULOSKELETAL SYSTEM DISEASES	1+0	II
VM-703	ADVANCES IN FARM ANIMAL CARDIOPULMONARY AND UROLOGICAL DISEASES	1+0	I
VM-704	ADVANCES IN FARM ANIMAL NEONATOLOGY	1+0	II
VM-705	HERD HEALTH MEDICINE	1+1	II
VM-706	ADVANCES IN EMERGING AND RE-EMERGING INFECTIOUS DISEASES OF FARM ANIMALS	2+0	II
VM-707	ADVANCES IN CANINE & FELINE GASTROENTEROLOGY	1+0	I
VM-708	ADVANCES IN CANINE & FELINE NEUROLOGICAL AND MUSCULOSKELETAL SYSTEM DISEASES	1+0	I
VM-709	ADVANCES IN CANINE & FELINE CARDIOPULMONARY AND UROLOGICAL DISEASES	1+0	II
VM-710	ADVANCES IN CANINE & FELINE DERMATOLOGY AND ENDOCRINOLOGY	1+0	II
VM-711	ADVANCES IN CANINE & FELINE NEONATOLOGY AND PAEDIATRICS	1+0	I
VM-712	ADVANCES IN CANINE & FELINE EYE AND EAR DISEASES	1+0	II
VM-713	ADVANCES IN EMERGING AND RE-EMERGING DISEASES OF CANINE & FELINE	1+0	I
VM-714	ADVANCED CLINICAL PRACTICE- I	0+2	I
VM-715	ADVANCED CLINICAL PRACTICE- II	0+2	II
VM-716	ADVANCED CLINICAL PRACTICE- III	0+2	I
VM-790	SPECIAL PROBLEM	0+2	I / II
VM-791	DOCTORAL SEMINAR- I	1+0	I / II
VM-792	DOCTORAL SEMINAR- II	1+0	I / II
VM-799	DOCTORAL RESEARCH	45	

**VETERINARY SURGERY AND RADIOLOGY****M.V.Sc.**

<b>COURSE NO.</b>	<b>TITLE OF THE COURSE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
VSR 601	PRINCIPLES OF SURGERY	2+0	I
VSR 602	CLINICAL PRACTICE – I	0+3	I
VSR 603	CLINICAL PRACTICE – II	0+3	II
VSR 604	SMALL ANIMAL ANESTHESIA	2+1	I
VSR 605	LARGE ANIMAL ANESTHESIA	2+1	I
VSR 606	DIAGNOSTIC IMAGING TECHNIQUES	2+1	I
VSR 607	VETERINARY OPHTHALMOLOGY & DENTISTRY	1+1	II
VSR 608	SMALL ANIMAL SOFT TISSUE SURGERY	2+1	II
VSR 609	LARGE ANIMAL SOFT TISSUE SURGERY	2+1	II
VSR 610	ORTHOPEDICS & LIMB SURGERY	2+1	II
VSR 691	MASTER'S SEMINAR	1+0	I / II
VSR 699	MASTER'S RESEARCH	20	

**Ph.D.**

<b>COURSE NO.</b>	<b>TITLE OF THE COURSE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
VSR 701	CLINICAL SURGICAL PRACTICE I	0+2	I
VSR 702	CLINICAL SURGICAL PRACTICE II	0+2	II
VSR 703	CLINICAL SURGICAL PRACTICE III	0+2	I
VSR 704	ANAESTHESIA OF WILD AND LABORATORY ANIMALS	1+1	I
VSR 705	ADVANCES IN ANAESTHESIOLOGY	2+1	I
VSR 706	ADVANCES IN DIAGNOSTIC IMAGING TECHNIQUES	2+1	II
VSR 707	NEUROSURGERY	2+1	I
VSR 708	EXPERIMENTAL SURGICAL TECHNIQUES IN ANIMALS	1+1	II
VSR 789	SPECIAL PROBLEM IN ANAESTHESIA	0+2	I / II
VSR 790	SPECIAL PROBLEM IN SURGERY	0+2	I / II
VSR 791	DOCTORAL SEMINAR - I	1+0	I / II
VSR 792	DOCTORAL SEMINAR - II	1+0	I / II
VSR 799	DOCTORAL RESEARCH	45	

**DEPARTMENT OF VETERINARY GYNAECOLOGY & OBSTETRICS**

**M.V.Sc.**

COURSE NO.	TITLE OF COURSE	CREDIT HOURS	SEMESTER
VOG 601	GEN GYNAECOLOGY	3+1	I
VOG 602	FEMALE INFERTILITY	3+1	I
VOG 603	VET. OBSTETRICS	2+2	I
VOG 604	ANDROLOGY AND MALE INFERTILITY	3+1	II
VOG 605	SEMEN PRESERVATION AND A.I	2+1	II
VOG 606	REPRODUCTIVE BIOTECHNOLOGY	3+1	II
VOG 607	CLINICAL PRACTICE-I	0+3	I
VOG 608	CLINICAL PRACTICE II	0+3	II
VOG 691	MASTER'S SEMINAR	1+0	I / II
VOG699	MASTER'S RESEARCH	20	

**Ph.D.**

COURSE NO.	TITLE OF COURSE	CREDIT HOURS	SEMESTER
VOG 701	ADVANCE IN GYNAECOLOGY	2+1	I
VOG 702	ADVANCE IN OBSTETRICS	2+1	I
VOG 703	ADVANCE IN ANDROLOGY	2+1	I
VOG 704	ADVANCE IN REPRODUCTIVE BIOTECHNOLOGY	1+1	II
VOG 705	ADVANCE IN SEMEN PRESERVATION	1+1	II
VOG 706	CLINICAL PRACTICE-I	0+3	I
VOG 707	CLINICAL PRACTICE-II	0+3	II
VOG 790	SPECIAL PROBLEM	0+2	II
VOG 791	DOCTORAL SEMINAR-I	1+0	I/II
VOG 792	DOCTORAL SEMINAR-II	1+0	I/II
VOG799	DOCTORAL RESEARCH	45	

**LIVESTOCK PRODUCTION AND MANAGEMENT**

**M. V. Sc.**

COURSE NO	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
LPM 601	CATTLE AND BUFFALO PROD AND MANAGEMENT	2+1	I
LPM 602	SHEEP AND GOAT PROD AND MANAGEMENT	2+1	I
LPM 603	SWINE PRODUCTION AND MANAGEMENT	1+1	I
LPM 604	LAB ANIMAL PROD AND MANAGEMENT	1+1	I
LPM 605	SHELTER MANAGEMENT	1+1	II
LPM 606	PRINCIPLES OF ENVIR. HYGIENE & WASTE MGMT	2+0.	II
LPM 607	CLIMATOLOGY AND ANIMAL PRODUCTION	1+0	II
LPM 608	POULTRY FARM AND HATCHERY MANAGEMENT	2+1	II
LPM 609	FARM ANIMAL BEHAVIOR	1+0	I
LPM 610	INTEGRATED LIVESTOCK FARMING SYSTEM	2+1	II
LPM 611	EQUINE PRODUCTION AND MANAGEMENT	1+1	II
LPM 612	WILD LIFE MANAGEMENT AND CONSERVATION	2+0	I
LPM 613	LIVESTOCK BUSINESS MANAGEMENT	1+1	I
LPM 691	MASTER'S SEMINAR	1+0	I / II
LPM 699	MASTER'S RESEARCH	45	

**Ph.D.**

COURSE NO	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
LPM 701	ADVANCES IN CATTLE AND BUFFALO PRODUCTION AND MANAGEMENT	3+0	I
LPM702	ADVANCES IN SHEEP AND GOAT PRODUCTION AND MANAGEMENT	2+1	I
LPM 703	ADVANCES IN SWINE PRODUCTION AND MANAGEMENT	2+1	I
LPM 704	ADVANCES IN LABORATORY ANIMAL PRODUCTION AND MANAGEMENT	1+0	I
LPM 705	ADVANCES IN POULTRY PRODUCTION AND MANAGEMENT	2+1	II
LPM 706	ADVANCES IN ENVIRONMENTAL MANAGEMENT	1+1	II
LPM 707	ADVANCES IN EQUINE PRODUCTION AND MANAGEMENT	2+1	II
LPM 790	SPECIAL PROBLEM	0+2	I / II
LPM 791	DOCTORAL SEMINAR-I	1+0	I / II
LPM 792	DOCTORAL SEMINAR-II	1+0	I / II
LPM799	DOCTORAL RESEARCH	45	

**DEPARTMENT OF POULTRY SCIENCE****M.V.Sc.**

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
PSC 601	POULTRY BREEDING AND GENETICS	2+1	I
PSC 602	POULTRY NUTRITION AND FEEDING	2+1	II
PSC 603	COMMERCIAL LAYER PRODUCTION.	2+1	II
PSC 604	COMMERCIAL BROILER PRODUCTION	2+1	I
PSC 605	BREEDER STOCK, FLOCK, HEALTH AND HATCHERY MANAGEMENT	3+1	II
PSC 606	MANAGEMENT OF POULTRY OTHER THAN CHICKEN	2+1	I
PSC 607	POULTRY PRODUCTS TECHNOLOGY AND MARKETING	2+1	II
PSC 608	POULTRY ECONOMICS, PROJECTS AND MARKETING	2+1	I
PSC 609	PHYSIOLOGY OF POULTRY PRODUCTION	2+1	I
PSC 691	MASTER'S SEMINAR	1+0	I / II
PSC 699	MASTER'S RESEARCH	20	

**Ph.D.**

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
PSC 701	APPLIED POULTRY NUTRITION.	2+1	I
PSC 702	CONCEPT IN COMMERCIAL POULTRY PRODUCTION.	2+1	I
PSC 703	DEVELOPMENTS IN POULTRY PRODUCTS TECHNOLOGY	2+1	I
PSC 704	EMERGING DISEASES OF POULTRY AND FLOCK HEALTH	2+1	II
PSC 705	ADVANCED POULTRY BREEDING METHODS	2+1	II
PSC 706	POULTRY ECONOMICS, MARKETING AND INTEGRATION	2+1	II
PSC 791	DOCTORAL SEMINAR I	1+0	I / II
PSC 792	DOCTORAL SEMINAR II	1+0	I / II
PSC 799	DOCTORAL RESEARCH	45	

**ANIMAL NUTRITION**

**M.V.Sc.**

<b>COURSE NO.</b>	<b>TITLE OF THE COURSE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
ANN 601	ANIMAL NUTRITION – ENERGY AND PROTEIN	3+0	I
ANN 602	ANIMAL NUTRITION – MINERALS, VITAMINS AND FEED ADDITIVES	3+1	I
ANN 603	FEED TECHNOLOGY	1+1	II
ANN 604	FEED CONSERVATION, STORAGE AND QUALITY CONTROL	2+2	I
ANN 605	RUMINANT NUTRITION	2+1	II
ANN 606	NON-RUMINANT NUTRITION	1+1	II
ANN 607	NUTRITION OF COMPANION / LABORATORY, WILD AND ZOO ANIMALS	2+1	II
ANN 608	RESEARCH TECHNIQUE IN ANIMAL NUTRITION	1+3	I
ANN 609	NON-CONVENTIONAL FEEDSTUFF AND TOXIC CONSTITUENTS/ANTIMETABOLITES IN ANIMAL FEEDSTUFF	2+1	II
ANN 691	MASTER'S SEMINAR	1+0	I / II
ANN 699	MASTER'S RESEARCH	20	

**Ph.D.**

<b>COURSE NO.</b>	<b>TITLE OF THE COURSE</b>	<b>CREDIT HOUR</b>	<b>SEMESTER</b>
ANN 701	MODERN CONCEPTS OF FEEDING RUMINANTS AND FORAGE UTILIZATION	3+0	I
ANN 702	MODERN CONCEPTS OF FEEDING MONOGASTRIC ANIMALS	2+0	I
ANN 703	NUTRITION AND RUMEN FERMENTATION	1+1	I
ANN 704	ADVANCES IN MICRONUTRIENTS	1+0	II
ANN 705	ADVANCED TECHNIQUES IN NUTRITION AND RESEARCH	1+2	II
ANN 706	ADVANCES IN FEED TECHNOLOGY	1+1	II
ANN 707	CLINICAL NUTRITION	1+1	II
ANN 708	NUTRIENT AND DRUG INTERACTION	2+0	I
ANN 709	NEW FEED RESOURCES AND TOXICANTS IN ANIMAL FEEDING	2+0	II
ANN 791	DOCTORAL SEMINAR I	1+0	I / II
ANN 792	DOCTORAL SEMINAR II	1+0	I / II
ANN 799	DOCTORAL RESEARCH	45	

**DEPARTMENT OF ANIMAL GENETICS & BREEDING,**

**M.V.Sc.**

COURSE NO.	COURSE TITLE	CREDITS	SEMESTER
AGB- 601	ANIMAL CYTOGENETICS AND IMMUNOGENETICS	2+1	I
AGB- 602	MOLECULAR GENETICS IN ANIMAL BREEDING	2+1	II
AGB- 603	POPULATION AND QUANTITATIVE GENETICS IN ANIMAL BREEDING	2+1	I
AGB- 604	SELECTION METHODS AND BREEDING SYSTEMS	3+1	I
AGB- 605	BIOMETRICAL TECHNIQUES IN ANIMAL BREEDING	3+1	II
AGB- 606	CONSERVATION OF ANIMAL GENETIC RESOURCES	2+0	ii
AGB- 607	CATTLE AND BUFFALO BREEDING	2+1	I
AGB- 608	SMALL FARM ANIMAL BREEDING (SHEEP, GOAT, SWINE AND RABBIT)	2+0	I
AGB- 609	POULTRY BREEDING	2+1	II
AGB- 610	LABORATORY ANIMAL BREEDING	1+0	II
AGB-691	MASTER'S SEMINAR	1+0	I / II
AGB-699	MASTER'S RESEARCH	20	

**Ph.D.**

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
AGB 701	RECENT ADVANCES IN ANIMAL GENETICS	2 + 0	I
AGB 702	RECENT TRENDS IN ANIMAL BREEDING	2 + 0	I
AGB 703	ADVANCES IN BIOMETRICAL GENETICS	2 + 1	I
AGB 704	ADVANCES IN SELECTION METHODOLOGY	2 + 1	II
AGB 705	BIOINFORMATICS IN ANIMAL GENETICS AND BREEDING	2 + 0	II
AGB 706	ADVANCES IN MOLECULAR CYTOGENETICS	2 + 0	II
AGB 707	UTILISATION OF NON-ADDITIVE GENETICS VARIANCE IN FARM ANIMALS	2 + 1	I
AGB 791	DOCTORAL SEMINAR I	1+0	I / II
AGB 792	DOCTORAL SEMINAR II	1+0	I / II
AGB 799	DOCTORAL RESEARCH	45	



**DEPARTMENT OF LIVESTOCK PRODUCTS TECHNOLOGY**

**M. V. Sc.**

COURSE NO.	TITLE OF COURSE	CREDIT HOURS	SEMESTER
LPT- 601	FRESH MEAT TECHNOLOGY	1+1	II
LPT-602	MEAT PROCESSING, PACKAGING, QUALITY CONTROL AND MARKETING	2+1	II
LPT-603	POULTRY AND FISH PRODUCTS TECHNOLOGY	2+1	II
LPT- 604	EGG AND EGG PRODUCTS TECHNOLOGY	1+1	II
LPT- 605	ABATTOIR AND POULTRY PROCESSING PLANT PRACTICES	1+1	I
LPT-606	SLAUGHTER HOUSE BY-PRODUCTS TECHNOLOGY	2+1	I
LPT-607	PROCESSING AND MARKETING OF WOOL	2+1	I
LPT- 608	MARKET MILK PROCESSING AND DAIRY PLANT PRACTICES	2+1	I
LPT-609	QUALITY CONTROL OF MILK AND MILK PRODUCTS	1+1	II
LPT-610	TECHNOLOGY OF MILK PRODUCTS	2+1	II
LPT-611	BIOTECHNOLOGY OF FOODS OF ANIMAL ORIGIN	1+1	I
LPT-612	IN PLANT TRAINING	0+2 (NC)	II
LPT-691	MASTER'S SEMINAR	1+0	I / II
LPT 699	MASTER'S RESEARCH	20	

**Ph.D.**

COURSE NO.	TITLE OF COURSE	CREDIT HOURS	SEMESTER
LPT -701	ADVANCES IN ABATTOIR PRACTICES AND ANIMAL BYPRODUCTS UTILIZATION	2+1	I
LPT-702	ADVANCES IN FRESH MEAT AND PROCESSED MEAT PRODUCTS TECHNOLOGY	3+1	I
LPT-703	ADVANCES IN POULTRY PRODUCTS TECHNOLOGY	2+1	I
LPT-704	ADVANCES IN MILK AND MILK PRODUCTS TECHNOLOGY	3+1	II
LPT-705	ADVANCES IN QUALITY CONTROL OF LIVESTOCK PRODUCTS	2+0	II
LPT-706	BIOTECHNOLOGICAL TECHNIQUES AND PROCESS IN ANIMAL PRODUCTS	1+1	II
LPT-791	DOCTORAL SEMINAR I	1+0	I / II
LPT-792	DOCTORAL SEMINAR II	1+0	I / II
LPT 799	DOCTORAL RESEARCH	45	

**VETERINARY AND ANIMAL HUSBANDRY EXTENSION**

M.V.Sc.

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
AHE 601	FUNDAMENTALS OF VETERINARY AND ANIMAL HUSBANDRY EXTENSION	2+1	I
AHE 602	COMMUNICATION FOR LIVESTOCK DEVELOPMENT	1+1	II
AHE 603	DIFFUSION AND ADOPTION OF ANIMAL HUSBANDRY PRACTICES	2+1	I
AHE 604	EXTENSION TECHNIQUES AND AUDIO VISUAL AIDS	2+1	I
AHE 605	ANIMAL HUSBANDRY PROGRAMME PLANNING AND EVALUATION	2+1	II
AHE 606	RESEARCH METHODOLOGY IN VETERINARY AND ANIMAL HUSBANDRY EXTENSION	2+1	II
AHE 607	SOCIAL PSYCHOLOGY AND GROUP DYNAMICS	2+1	I
AHE 608	ANIMAL HUSBANDRY DEVELOPMENT PROGRAMMES	1+0	I
AHE 609	DEVELOPMENTS IN THE CONCEPT OF EXTENSION	1+0	II
AHE 610	HUMAN RESOURCE MANAGEMENT IN ANIMAL HUSBANDRY SECTOR	2+1	II
AHE 611	GENDER AND LIVESTOCK DEVELOPMENT	1+0	II
AHE 612	INFORMATION AND COMMUNICATION TECHNOLOGY IN LIVESTOCK DEVELOPMENT	1+1	II
AHE 691	MASTER'S SEMINAR	1+0	I / II
AHE 699	MASTER'S RESEARCH	20	-

Ph.D.

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
AHE 701	ORGANIZATIONAL MANAGEMENT	3+0	I
AHE 702	FARM JOURNALISM AND PUBLIC RELATIONS	2+1	I
AHE 703	ADVANCED RESEARCH TECHNIQUES IN SOCIAL RESEARCH	3+1	I
AHE 704	TRAINING FOR HUMAN RESOURCE DEVELOPMENT	2+1	II
AHE 705	POLICIES AND REGULATIONS IN LIVESTOCK SECTOR	2+0	II
AHE 706	EDUCATIONAL TECHNOLOGY	2+1	I
AHE 707	DYNAMICS OF CHANGE	2+0	II
AHE 708	ORGANIZATIONAL COMMUNICATION	2+1	I
AHE 790	SPECIAL PROBLEM	0+2	I / II
AHE 791	DOCTORAL SEMINAR I	1+0	I / II
AHE 792	DOCTORAL SEMINAR II	1+0	I / II
AHE 799	DOCTORAL RESEARCH	45	

**ANIMAL BIOTECHNOLOGY**

**M.V.Sc. / M.Sc.**

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
ABT 602	FUNDAMENTALS OF CELL & MOLECULAR BIOLOGY	3+0	I
ABT 603	APPLIED MOLECULAR BIOLOGY	2+1	I
ABT 604	ANIMAL CELL CULTURE: PRINCIPLES & APPLICATIONS	1+2	I
ABT 605	MOLECULAR DIAGNOSTICS	1+2	II
ABT 609	ANIMAL GENOMIC	2+1	I
ABT 610	REPRODUCTIVE BIOTECHNOLOGY	2+1	II
ABT 611	TECHNIQUES IN MOLECULAR BIOLOGY & GENETIC ENGINEERING	0+3	II
ABT 691	MASTER'S SEMINAR	1+0	I / II
ABT 699	MASTER'S RESEARC	20	

**Ph.D.**

COURSE NO.	TITLE OF THE COURSE	CREDIT HOURS	SEMESTER
ABT 701	GENE CLONING AND EXPRESSION	1+1	I
ABT 702	FUNCTIONAL GENOMICS & PROTEOMICS	2+1	I
ABT 703	ADVANCES IN REPRODUCTIVE BIOTECHNOLOGY	2+1	II
ABT 704	TRENDS IN VACCINOLOGY	3+0	II
ABT 705	ADVANCES IN ANIMAL CELL CULTURE	2+1	I
ABT 706	TRANSGENIC ANIMAL TECHNOLOGY	2+0	II
ABT 791	DOCTORAL SEMINAR I	1+0	I / II
ABT 792	DOCTORAL SEMINAR II	1+0	I / II
ABT 799	DOCTORAL RESEARCH	45	

**WILDLIFE HEALTH MANAGEMENT****M.V.Sc.**

<b>COURSE NO.</b>	<b>TITLE OF THE COURSE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
WHM 601	WILD ANIMAL HEALTH MANAGEMENT AND DIAGNOSTICS	2+1	I
WHM 602	PATHOLOGY AND MEDICINE OF WILDLIFE DISEASES (CARNIVORE)	2+1	I
WHM 603	PATHOLOGY AND MEDICINE OF WILDLIFE DISEASES (HERBIVORE)	2+1	II
WHM 604	CAPTURE AND RESTRAINING OF WILD ANIMALS	2+1	II
WHM 605	ZOO ARCHITECTURE	1+1	I
WHM 606	WILDLIFE FORENSICS AND PROTECTION LAWS	2+1	II
WHM 607	PATHOLOGY AND MEDICINE OF NON-HUMAN PRIMATE AND REPTILIAN DISEASES.	2+1	II
WHM 608	DISEASE MANAGEMENT OF PET AND WILD BIRDS	1+1	I
WHM 609	NECROPSY PROCEDURES AND CORRELATED PATHOLOGY	0+3	I
WHM 610	COMPUTER APPLICATION IN WILDLIFE SCIENCES	0+1	I
WHM 611	NUTRITIONAL MANAGEMENT IN CAPTIVITY.	1+1	II
WHM 691	MASTER'S SEMINAR	1+0	I / II
WHM 699	MASTER'S RESEACH	20	

**Ph.D.**

<b>COURSE NO.</b>	<b>TITLE OF THE COURSE</b>	<b>CREDIT HOURS</b>	<b>SEMESTER</b>
WHM-701	ADVANCES IN WILDLIFE HEALTH AND MANAGEMENT	2+1	I
WHM-702	MANAGEMENT OF WILDLIFE DISEASES-I	1+1	I
WHM-703	INTRODUCTION TO WILDLIFE FORENSICS	1+1	I
WHM-704	WILDLIFE ETHOLOGY	2+1	II
WHM-705	ADVANCES IN WILDLIFE IMMOBILIZATION	2+1	II
WHM-706	MANAGEMENT OF WILDLIFE DISEASES-II	1+1	II
WHM-707	MOLECULAR TECHNIQUES IN WILDLIFE FORENSICS	0+2	I
WHM-708	WILDLIFE NECROPSY AND CORRELATED PATHOLOGY	0+3	I
WHM-709	FIELD TRAINING ON WILDLIFE HEALTH	0+3	I
WHM 791	DOCTORAL SEMINAR I	1+0	I / II
WHM 792	DOCTORAL SEMINAR II	1+0	I / II
WHM 799	DOCTORAL RESEARCH	45	