

SRI VENKATESWARA UNIVERSITY:'TIRUPATI

**B.VOC. HONOURS PROGRAMME IN DAIRY AND ANIMAL HUSBANDARY
COURSE STRUCTURE
SEMESTER – V – w.e.f. 2025-26**

Skills Gen. Edu	Courses	Title of Paper/Course and code	Credits per course	Hours/ week	Total Hours/ Course	Marks		
						Internal	External	Total
Domain Core component	Major-I	Meat production of abattoir management	3	3	45	25	75	100
	Practical	Meat production of abattoir management	1	2	30		50	50
	Major-II	Veterinary pharmacology	3	3	45	25	75	100
	Practical	Veterinary pharmacology	1	2	30		50	50
	Major-III	Basics of veterinary surgery	3	3	45	25	75	100
	Practical	Basics of veterinary surgery	1	2	30		50	50
	Major-IV	Veterinary Gynecology obstetrics and AI	3	3	45	25	75	100
	Practical	Veterinary Gynecology obstetrics and AI	1	2	30		50	50

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**B. VOC. HONOURS PROGRAMME IN DAIRY AND ANIMAL HUSBANDRY
MAJOR: DAIRY AND ANIMAL HUSBANDRY
THRID YEAR V- SEMESTER**

under CBCS W.E.F.2023-24 AY Onwards

**MAJOR-I: MEAT PRODUCTION OF ABBATTIOR MANAGEMENT
Credits-3**

UNIT - I 9 Hrs

Prospect of meat industry in India. Nutritive value of Meet

UNIT – II 9 Hrs

Presentation of meat and poultry; drying, salting, curing, smoking, chilling, freezing, canning, irradiation and chemical. Ageing of meat

UNIT – III 9 Hrs

Modern processing technology of meat and meat products. packaging of meat and products. Formulation and development of meat; kabab, sausages, meat balls or patties, tandoori chicken, soup, pickles

UNIT – IV 9 Hrs

Layout and management of rural, urban and modern abattoirs. HACCP concept in abattoirs management. FSSA standards on organization and layout of abattoirs. Animal welfare and preslaughter care, handling and transport of meat animals including poultry

UNIT – V 9 Hrs

Procedures of ante- mortem and post mortem examination of meat animals. Slaughtering and dressing of meat animals and birds. Evaluation, grading fabrication of dressed carcasses

PRACTICALS SYLLABUS
MAJOR-I: MEAT PRODUCTION OF ABBATTIOR MANAGEMENT
Credits-1

1. Visit to slaughter houses or meat plants
2. packaging of meat, poultry shell eggs and their products.
3. Estimation of deteriorative changes and meat products
4. preparation of comminuted and noncomminuted meat and poultry products.
5. Evaluation external and internal egg quality and preservation tactic of eggs
6. methods of ritual and humane slaughter, flaying and dressing of food animal including poultry.
7. carcass evaluation
8. Determination of meat yield, dressing, meat bone ratio and cutup parts.
9. Preparation of different abattoirs by products.

Reference books:

1. Lawrie's Meat Science – R.A. Lawrie and David Ledward
 - A classic text covering meat composition, processing, and quality.
 2. Meat Science – P.D. Warriss
 - Focuses on meat structure, chemistry, microbiology, and meat processing.
 3. Meat Processing: Improving Quality – Joseph Kerry (Editor)
 - Modern processing methods, safety, and quality control.
 4. Meat Hygiene – Gracey, Collins & Huey
 - Essential for understanding meat inspection and hygienic practices.
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MAJOR-II: VETERINARY PHARMACOLOGY
Credits-3

UNIT – I

9 Hrs

Introduction, historical development, branches and scope of Pharmacology. Sources and nature of drugs. Pharmacological terms and definitions, nomenclature of drugs.

UNIT – II

9 Hrs

Principles of drug activity: Pharmacokinetics - Routes of drug administration, absorption, distribution, biotransformation and excretion of drugs.

UNIT – III

9 Hrs

Pharmacodynamics - Concept of drug and receptor, dose-response relationship, terms related to drug activity and factors modifying the drug effect and dosage. Adverse drug reactions, drug interactions

UNIT – IV

9 Hrs

Classification of drugs. History, mechanism and stages of general anesthesia. Inhalant, intravenous and dissociative anesthetics.

UNIT – V

9 Hrs

Hypnotics and sedatives; psychotropic drugs, anticonvulsants, opioid analgesics, non-steroidal anti-inflammatory drugs, analeptics and other CNS stimulants. local anesthetics, muscle relaxants. Euthanizing agents.
Fluid therapy.

PRACTICALS SYLLABUS
MAJOR-II: VETERINARY PHARMACOLOGY
Credits - 1

1. Handling and washing of laboratory wares.
2. Handling and operation of commonly used laboratory instruments. Concept of good laboratory practices (GLP).
3. Pharmacy appliances. Principles of compounding and dispensing. Metrology, systems of weights and measures, pharmacy calculations. Pharmaceutical processes. Pharmaceutical dosage forms.
4. Prescription writing, incompatibilities.
5. Drug standards and regulations, custody of poisons.
6. Compounding and dispensing of powders, ointments, mixtures, liniments, lotions, liquors, tinctures, emulsions and electuaries.
7. Demonstration of various chemotherapeutic agents and their dosage forms

Reference books:

1. Veterinary Pharmacology Vall achira Aravindan
2. Essentials Of Veterinary Pharmacology and Therapeutics H S Sandhu
3. Handbook of Veterinary Pharmacology Walter
4. Veterinary Pharmacology and Toxicology B. K. Roy
5. Essentials of Medical Pharmacology KD Tripathi

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MAJOR-III: BASICS OF VETERINARY SURGERY

Credits-3

UNIT – I

9 Hrs

*Introduction: Historical perspective, Definitions. classification of surgery.
Tenets of Halsted.*

UNIT – II

9 Hrs

*History taking, physical examination, clinic-pathological testing.
Pre-operative, intra-operative and post-operative considerations*

UNIT – III

9 Hrs

*Sterilization and disinfection: Definitions, surgical sterilization, various
methods of sterilization (Heat, chemical and radiations etc.),
disinfections.*

UNIT – IV

9 Hrs

*Sutures: Definitions, suturing, factors influencing suturing, characteristics
of an ideal suture material, types of suture material-absorbable and non-
absorbable, surgical knots, various suture patterns-apposition, eversion,
inversion and special.*

UNIT – V

9 Hrs

*Basic surgical affections: Definitions, classification, diagnosis and treatment
of abscess, tumor, cyst, hernia, hematoma, necrosis, gangrene, burn and scald,
frost bite and surgical affections of muscles, artery and vein, sinus and fistula.
Fractures.
Major surgeries of cattle and dogs.*

PRACTICALS SYLLABUS

MAJOR-III: BASICS OF VETERINARY SURGERY

Credits – 1

- 1.Introduction to layout of operation theatre and surgical unit.
- 2.Introduction of common surgical equipment and instruments. Suture materials, surgical knots and suture patterns.
- 3.General examination of surgical patients. Preparation of surgical patients. Other operation theatre routines like sterilization, preparation of theatre, Surgeon and surgical pack.
- 4.Bandaging and basic wound management Demonstration (or Audiovisual aids) of surgery, control of hemorrhage and suturing

Reference books:

A Textbook on Veterinary Surgery and Radiology	S.K NANDI
Essentials of Veterinary surgery	Venugopalan
S	
Dolor's Veterinary surgery	O'Connor JJ
Veterinary surgery	E R Frank
Veterinary Surgery	Spencer A Johnston

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MAJOR-IV: VETERINARY GYNAECOLOGY, OBSTETRICS AND AI

Credits-3

UNIT – I	9 Hrs
Anatomy of female and male reproductive tract of livestock. Puberty and sexual maturity.	
UNIT – II	9 Hrs
Estrous cycle and factors affecting the length of the estrous cycle- Aberrations of estrus and their clinical management and problems in estrus detection and estrus detection aids.	
UNIT – III	9 Hrs
Pathological affections of ovary, uterine tubes, uterus, cervix, vagina and external genitalia and male genet Alia.	
UNIT – IV	9 Hrs
Pregnancy diagnosis- Duration of pregnancy -Factors affecting gestation length.	
UNIT – V	9 Hrs
Care and management of pregnant animals. Stages of parturition. Forms of female and male infertility in bovines. Artificial insemination techniques in farm and pet animals	

PRACTICALS SYLLABUS
MAJOR-IV: VETERINARY GYNAECOLOGY, OBSTETRICS AND AI
Credits - 1

1. Study of female and male genital organs using slaughter house specimens Estrus detection in farm animals
2. Techniques of rectal palpation of female reproductive tract
Gynecological equipment and instruments
3. Vaginal exfoliative cytology and vaginoscopy AI equipment and technique
4. Vasectomy and castration
5. Handling and maintenance of LN2 containers

Reference books:

1. Veterinary obstetrics and genital diseases
Stephen J. Roberts
2. Applied veterinary gynecology and obstetrics
Dr. Pradeep Kumar
3. Veterinary reproduction and obstetrics
Geoffrey H. Arthur
4. Veterinary Reproduction and Obstetrics
David E. Noakes, Timothy
J. Parkinson & Gary C. W.

