

SRI VENKATESWARA UNIVERSITY: TIRUPATI

B.VOC. HONOURS PROGRAMME IN DAIRYING AND ANIMAL HUSBANDRY

Under CBCS W.E.F. 2024-2025

COURSE STRUCTURE

SEMESTER – IV

	Skills Gen. Edu	Courses	Title of Paper/Course and code	Credits per course	Hours/ week	Total Hours/ Course	Marks		
							Internal	External	Total
1									
2									
3									
4									
5	Domain Skill component	Major-I	Poultry Form Management and Production	3	3	45	25	75	100
6		Practical	Poultry Form Management and Production	1	2	30		50	50
7		Major -II	Veterinary Physiology	3	3	45	25	75	100
8		Practical	Veterinary Physiology	1	2	30		50	50
9		Major-III	Laboratory diagnostic techniques	3	3	45	25	75	100
10		Practical	Laboratory diagnostic techniques	1	2	30		50	50

SRI VENKATESWARA UNIVERSITY: TIRUPATI
B.VOC. HONOURS PROGRAMME IN DAIRYING AND ANIMAL HUSBANDRY
MAJOR: DAIRY AND ANIMAL HUSBANDRY
SECOND YEAR – IV SEMESTER
Under CBCS W.E.F. 2024-25 AY Onwards
MAJOR PAPER-I: POULTRY FARM MANAGEMENT AND PRODUCTION

Credits: 3

Hours: 45

Learning outcome:

After successfully completion of course, student is able to

1. Establish basic knowledge on How to maintain poultry hatchery and farm
2. Know about common diseases and also how to control diseases
3. Understand about vaccination schedule.
4. Provide Hands on experience

UNIT – I

9 Hrs.

Introduction - Definition of poultry farm, past and present status of poultry farm production in national and international level. Housing systems and poultry farming, Varieties of poultry, Biology of poultry and management of growers. Broilers and layers.

UNIT – II**9 Hrs.**

Design and construction of poultry hatchery and Poultry farm management. Poultry Nutrition Principles of poultry feed (Minerals, proteins, Toxicants, Vitamins and additives) and nutrient requirements for different stages in broilers and layers, and methods of feeding.

UNIT – III**9 Hrs.**

Poultry Hatchery and farm management, (From selection. care and testing of egg. handling and incubation of eggs, hatching methods to growing of chicks including sexing methods of chick) and chick care management., Broiler farm management, Layers farm management.

UNIT – IV**9Hrs.**

Backyard poultry farming, Duck and Geese farming, Emu, Guinea, Quail and Turkey farming, Health and Hygiene in poultry-symptoms, causes. treatment and preventions of Viral, Bacterial, Fungal, parasitic diseases.

UNIT – V**9 Hrs.**

Vaccine schedule in different stages of poultry farm and records to be maintained, Preparation of project report for applying of bank loan and process of insurance. Recycling of poultry waste and manure.

Reference books and website:

- 1.https://swayam.gov.Wnd2_nou 19_ag0Wpreview
- 2.Sreenivasaiah., P. V., 2015. Textbook of Poultry Science-New Delhi
- 3.Jull A. Morley, 2007. Successful Poultry Management. -New Delhi"
- 4.Hurd M. Louis, 2003. Modern Poultry Farming. 1st Edition. International Book [htributing Company, Lucknow."
- 5.Life and General Insurance Management,
- 6.Financial services, Tata Mc Graw hill
- 7.https://nsdcindia.org/sites/default/files/MC_AGR-Q4306_Small-poultry-farmer-.pdf
- 8.<http://ecourses online. iasri.res>.

SEMESTER-IV

MAJOR PAPER-I: POULTRY FORM MANAGEMENT AND PRODUCTION

PRACTICAL SYLLABUS

Hours: 30

Marks: 50

Credits: 1

1. External Anatomy of Chick/Hen/Cock/Duck.
2. Internal Anatomy of Chick/Hen/Cock/Duck.
3. Study of various types of Flows, Broilers, Layers, Ducks, Goose, quail (photographs/ models).
4. Identification of diseases causing by microbes in poultry.
5. Design of poultry farm.
6. Visit to poultry Hatchery and farm.

MAJOR PAPER - I: POULTRY FORM MANAGEMENT AND PRODUCTION MODEL QUESTION PAPER

Time: 3 Hours

Max. Marks: 75

PART -A

Answer any FIVE questions, each question carries 5 marks.
(5x5=25)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

PART – B

Answer **ALL** of the following Question. (5x10=50)

11. a)

OR

- b)
12. a)

b)
13. a)

OR

b)
14. a)

OR

b)
15. a)

OR

b)

OR

SRI VENKATESWARA UNIVERSITY: TIRUPATI

B.VOC. HONOURS PROGRAMME IN DAIRY AND ANIMAL HUSBANDRY

MAJOR: DAIRY AND ANIMAL HUSBANDRY

SECOND YEAR – IV SEMESTER

Under CBCS W.E.F. 2024-25 AY Onwards

MAJOR PAPER-II: VETERINARY PHYSIOLOGY

Credits: 3

Hours: 45

UNIT – I

9 Hrs.

Introduction to Blood; Properties of blood as a body fluid, plasma, its functions, erythropoiesis, factors influencing erythropoiesis; Hemoglobin-structure, physiological functions, Leucocytes, differential leucocyte count. Thrombocytes, Hemorrhage, hemostasis. Blood groups.

UNIT – II

9 Hrs.

Physiology of the gastrointestinal tracts of ruminants and monogastric animals Prehension, defecation; vomiting, function of saliva, stomach, intestine, pancreas; bile secretion; developmental aspects of digestion. Esophageal groove, rumination, fermentation.

UNIT – III

9 Hrs.

Physiology of respiration and mechanics of breathing. Transport of blood gases, fetal and neonatal oxygen transport. Physiology of excretory system, nephron structure, urine formation.

UNIT – IV**9 Hrs.**

Introduction and basics of endocrinology. Major endocrine glands and their hormones.
Hormones and their action on different systems of the body.

UNIT – V**9 Hrs.**

Physiology of Puberty. Physiology of reproduction in male, spermatogenesis. Physiology of reproduction in female, folliculogenesis, ovulation, estrus cycles. Mating behavior, fertilization, parturition. Lactation.

Reference books:

1. Textbook of Veterinary Physiology Bradley Klein, Elsevier
2. Animal physiology M. Armugam, A. Mariakuttukam
3. Physiology of domestic animals Dukes
4. Text book of Veterinary physiology B. Bhattacharya

SEMESTER-IV**MAJOR PAPER-II: VETERINARY PHYSIOLOGY****PRACTICALS -SYLLABUS****Credits: 1**

1. Collection of blood samples - Separation of serum and plasma.
2. Enumeration of erythrocytes.
3. Enumeration of leucocytes.
4. Differential leucocytic count.
5. Platelet count.
6. Estimation of hemoglobin.
7. Hematocrit - erythrocyte sedimentation rate - packed cell volume - coagulation time -bleeding time.
8. Counting of rumen motility
9. Urine analysis-physiological constituents and pathological determinates
10. Behavioral signs of estrus.
11. Sperm motility.
12. Sperm concentration -live and dead - abnormal sperm count.
13. Health parameters of animals- body temperature, pulse, respiration and heart rate.

MAJOR PAPER-II: VETERINARY PHYSIOLOGY

MODEL QUESTION PAPER

Time: 3 Hours

Max. Marks: 75

PART -A

Answer any FIVE questions, each question carries 5 marks.

(5x5=25)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

PART – B

Answer **ALL** of the following Question.

(5x10=50)

11. a)

OR

b)

12. a)

OR

b)

13. a)

OR

b)

14. a)

OR

b)

15. a)

OR

b)

SRI VENKATESWARA UNIVERSITY: TIRUPATI

B.VOC. HONOURS PROGRAMME IN DAIRY AND ANIMAL HUSBENDARY

MAJOR: DAIRY AND ANIMAL HUSBENDARY

SECOND YEAR – IV SEMESTER

Under CBCS W.E.F. 2024-25 AY Onwards

MAJOR PAPER-III: LABORATORY DIAGNOSTIC TECHNIQUES

Credits: 3

Hours: 45

UNIT – I

9 Hrs.

Microscope and usage of different microscopes.
Sterilization and methods of sterilization.

UNIT – II

9 Hrs.

Media – various ingredients used for preparation of culture media. Different media for bacterial and fungal cultures. Tissue cultures Various stains and dyes used for diagnostic work.
Different staining methods.

UNIT – III

9 Hrs.

Antigens and antibodies. Serodiagnostic technics used for identification of antigen/antibody.

UNIT – IV

9 Hrs.

Methods of preparation of permanent slides. Collection, preservation and despatch of various materials for parasitological examinations.

UNIT – V

9 Hrs.

Examination of parasitic specimens. Examination of pathological specimens.
Hematological examinations. Biochemical analysis.

SEMESTER-IV
MAJOR PEPAR-III: LABORATORY DIAGNOSTIC TECHNIQUES
PRACTICAL SYLLABUS

Credits -1

PRACTICALS

1. Identification of glass ware chemicals and laboratory equipment.
2. Preparation of normal and standard solutions.
3. Samples preparation for chemical analysis.
4. Preparation of slides for parasitic and pathological examinations.
5. Staining procedures for different specimens.
6. Collection and processing of specimens for clinical examination.
7. Clinical haematology
8. Preparation of permanent slides and museum specimens.

Reference books:

1. Veterinary Laboratory Diagnosis Chauhan RS
2. Veterinary Laboratory Diagnosis Sriraman
3. Veterinary Technician's Handbook of Laboratory Procedures Brianne Bellwood and. Melissa Andrasik Catton, John Wiley
4. Veterinary Laboratory Medicine Clinical Biochemistry and Haematology Morag G. Kerr, John Wiley
5. Veterinary clinical diagnostic technology Prasad B

MAJOR PAPER-III: LABORATORY DIAGNOSTIC TECHNIQUES

MODEL QUESTION PAPER

Time: 3 Hours

Max. Marks: 75

PART -A

Answer any FIVE questions, each question carries 5 marks. (5X5=25)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

- 7.
- 8.
- 9.
- 10.

PART – B

Answer **ALL** of the following Question. (5x10=50)

11. a)

OR

b)

12. a)

OR

b)

13. a)

OR

b)

14. a)

OR

b)

15. a)

OR

b)