



SRI VENKATESWARA UNIVERSITY, TIRUPATHI

4 -Year UG Honours in B.vocational (Dairy and Animal Husbandry) Major in Consonance with Curriculum Frame work w.e.f AY 2026-27

COURSE STRUCTURE (for Semester IV)

Year	Semester	Course	Title of the course	No. of hrs/ week	No. of credits
II	IV	8	Veterinary physiology (theory)	3	3
			Veterinary physiology (practical)	2	1
		9	Laboratory Diagnostic & Techniques (theory)	3	3
			Laboratory Diagnostic & Techniques (practical)	2	1
		10	Veterinary Gynacology & AI(Artificial insimulation)(theory)	3	3
			Veterinary Gynacology & AI (Artificial insimulation) (practical)	2	1

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Govt. Degree & P.G. College of Women

Chittoor - 517 044

SEMESTER-IV

COURSE 10 : VETERINARY GYNOCLOGY ,OBSTETRICS AND AI (Artificial insemination)

Theory

credits-3

3hrs/week

LEARNING OUTCOMES

After completion the course student able to

- 1.Practical understanding of animal reproductive physiology.
- 2.The ability to diagnose and treat reproductive disorders.
- 3.Proficiency in assisted reproductive technologies like artificial insemination.

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 Genitalia .

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 farms and pet animals .

SEMISTER -IV

COURSE 10: VETERINARY GYNOCOLGY , OBSTETRICS AND AI (Artificial insimination)

Practical _____ credit-1 _____ 2hrs/week

- 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.Vaginalexfoliative cytology and
vaginocopy AI equipment and techniques
4. Vasectomy and castration
5. Handling and maintenance of LN2
containers

Reference books :

- 1 . Veterinary Obstetrics and genital diseases
Stephen J. Raborts
- 2 . Applied veterinary gynecology and
obstetrics Dr .Pradeep Kumar
- 3 . Veterinary reproduction and obstetrics
Geoffrey H . Arthur
4. Veterinary Reproduction and obstetrics
David .Noakes , Timothy J. Parkinson &
Cary C. w.

MODEL QUESTION PAPER

COURSE : B. Voc Dairy & Animal Husbandry

VETERINARY GYNACOLOGY , OBSTETRICS AND AI (Artificial insimination)

Time: 3 hours

Marks: 75

SECTION - A

Answer ALL of the following. Each question carries equal marks

5X3=15

- 1 . What is the significance of puberty in livestock reproduction.
- 2 . Define the estrous cycle.
- 3 . List two common pathological conditions affecting the ovary in livestock.
- 4 . Mention one method used for pregnancy diagnosis in livestock.
- 5 . What are the key stages of parturition.
- 6 . Discuss the factors that affect the length of the oestrus cycle in livestock.
- 7 . Explain the clinical management of aberrations in oestrus.
- 8 . Describe the pathological affection of the uterus in livestock.
- 9 . Explain the factors that influence the gestation length in farm animal.
- 10 . Explain artificial insemination techniques used in form animal.

Section -B

Answer ALL of the following. Each question carries equal marks (5X12=60)

- 11 . A) Discuss the anatomy of the male reproductive tract in livestock.
(OR)
B) Explain the anatomy of the female reproduction track in livestock .
- 12 . A) Discuss the factors affecting oestrus detection and the aids used for detecting oestrus in livestock.
(OR)
B) Explain the common aberrations of oestrus and their clinical management .
- 13 . A) Describe the pathological affections of the cervix and their clinical implications .
(OR)
B) Discuss the pathological condition affecting male genitalia in livestock.
- 14 . A) Explain the different methods of pregnancy diagnosis and their importance in livestock management
(OR)
B) Discuss the factors that can affect the gestation length in farm animals.
- 15 . A) Discuss the care and management practices for pregnant animals.
(OR)
B) Discuss the forms and causes of females infertility in bovines and their management.

4- Year UG Honours, Major
Syllabus
(2026-27)
Semester-IV

Model Question Paper

Time : 3hrs

Marks:75

Part-A

Answer any Five Questions. Each Question carries 3 Marks.

5x3=15

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

Answer the following questions. Each question carries 12 Marks

5x12=60

11. a) Unit-I
(Or)
b) Unit-I

12. a) Unit-II
(Or)
b) Unit-II

13. a) Unit-III
(Or)
b) Unit-III

14. a) Unit-IV
(Or)
b) Unit-IV

15. a) Unit-V
(Or)
b) Unit-V