

Sri Venkateswara University, Tirupati

Model syllabus for 4- Year UG Honours in B.vocational (Dairy and Animal Husbandry) as Major in consonance with curriculum framework w.e.f.AY2025-26

COURSE STRUCTURE (FOR SEMESTER I to VIII)

Year	Semester	Course	Title of the course	No. of hrs/ week	No. of credits
I	I	1	Dairy Husbandry management production and dairy design & dairy development (Theory)	3	3
			Dairy Husbandry management production and dairy design & dairy development (Practical)	2	1
		2	Indian milk dairy products (Theory)	3	3
			Indian milk dairy products (practical)	2	1
	II	3	Bio-chemistry and physical chemistry of milk (theory)	3	3
			Bio-chemistry and physical chemistry of milk (Practical)	2	1
		4	Dairy plant management (theory)	3	3
			Dairy plant management (Practical)	2	1
II	III	5	Milk and milk products Technology (theory)	3	3
			Milk and milk products Technology (practical)	2	1
		6	Basic of animal nutrition(theory)	3	3
			Basic of animal nutrition (practical)	2	1
		7	Fodder production and conservation(theory)	3	3
			Fodder production and conservation (practical)	2	1
	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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III	V	II	Veterinary pharmacology (theory)	3	3
			Veterinary pharmacology (practical)	2	1
		12	Meat production and meat abattoir management(theory)	3	3
			Meat production and meat abattoir management (practical)	2	1
		13	Veterinary immunology & Vaccinations (Theory)	3	3
			Veterinary immunology & Vaccinations (practical)	2	1
	VI	14	Basics of Veterinary surgery (Theory)	3	3
			Basics of Veterinary surgery (Practical)	2	1
		15	Poultry farm management and production (theory)	3	3
			Poultry farm management and production (practical)	2	1
IV	VII	16	Basics of veterinary anatomy(theory)	3	3
			Basics of veterinary anatomy (practical)	2	1
		17	Dairy farm general management (theory)	3	3
			Dairy farm general management (practical)	2	1
		18	Cattle feed mixing plant (theory)	3	3
			Cattle feed mixing plant (practical)	2	1
		19	Animal genetics and breeding (theory)	3	3
			Animal genetics and breeding (practical)	2	1
		20	Fundamental of veterinary medicine (theory)	3	3
			Fundamental of veterinary medicine (practical)	2	1
	VIII	21	Milk production management Dairy plant Design and Dairy development (theory)	3	3
			Milk production management Dairy plant design and Dairy development (practical)	2	1
		22	Animal birth control programme (theory)	3	3
			Animal birth control programme (practical)	2	1
		23	Principles of Dairy chemistry and Dairy microbiology (theory)	3	3
			Principles of Dairy chemistry and Dairy microbiology(practical)	2	1
		24	Livestock production and management (theory)	3	3
			Live stock production and management (practical)	2	1
		25	Dairy economic and marketing (theory)	3	3
			Dairy economic and marketing (practical)	2	1

SEMESTER-I
COURSE 1 : DAIRY HUSBANDRY MANAGEMENT AND PRODUCTION AND DAIRY DESIGN & Dairy Development

<u>Theory</u>	<u>Credits-3</u>	<u>3hrs /week</u>
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Learning outcomes :

After completion the course student is able to

- Understand establishment of dairy farm
- Various types of dairy animal breeders, breeding techniques
- Various types of feeds, and know about diseases in dairy animals

Unit-I

9 hrs

Introduction to Dairy farm and Advantages of Dairy, Past and present status of production in dairy farm development in national level, Economic traits of dairy cattle, Sheep and Goats, Methods of selection of dairy animals, Classification of dairy animals such as Indigenous, Exotic, Cross breeds (Indian cattle and Buffalo breeds).

Unit-II

9 hrs

Definition, Characteristics and Types of breeding, Process of breeding, Artificial Insemination, Embryo transfer techniques, Housing of dairy animals and systems of housing, Cleaning and Sanitation of dairy farm. Care and management of Calf, Heifer, Milk /dairy animals and pregnant, Bull and Bullocks animals, Parturition/ Calving, Castration, Weaving, dehorning and deworming.

Unit-III

9 hrs

Digestion of ruminants, Nutrient requirements of dairy animals feed, Definition and benefits of Fodder and forage to dairy animals, Harvesting techniques, Feed additives, Pro biotic s, Common feed stuffs. And water requirements to dairy animals.

Unit-IV

9 hrs

Diseases to dairy animals: Mastitis - Common contagious diseases – Foot and Mouth disease, Anthrax – Black quarter – Tuberculosis – John's disease – Brucellosis – Rabies. Health Care management such as sick, indigestion, Respiration problem, bloat diseases and Vaccination programme and to be maintained record.

Unit-V

9 hrs

Significance of dairy business, Construction of Vermi - composting, Government schemes for development of dairy, Cooperative societies, Good management practices for dairy industry, Proposal of bank loan for establishment of Dairy farm

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SEMESTER -I

COURSE 1 : DAIRY HUSBANDRY MANAGEMENT PRODUCTION and DAIRY DESIGN & DAIRY DEVELOPMENT

<u>Practical</u>	<u>credits-1</u>	<u>2hrs /week</u>
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1. External Anatomy of cow/bullock/bull/calf
2. Internal Anatomy of cow/bullock/bull/calf
3. Diagram of male and female reproductive system of cow/bull
4. Study various types of breeds of dairy animals (photographs/models)
5. Identification of diseases causing microbes in dairy animals
6. Process of castration
7. Process of dehorning
8. Preparation of vermi compost
9. Design of a Dairy farm

*Submission of Field note book (Visited to veterinary hospital/university/dairy farm)

Scheme of valuation

1. Draw a neat diagram of digestive system of any cow /bull-----10 marks

OR

Preparation of vermi compost

2. Draw a neat diagram of male/female Reproductive system of any cow/bull -----10 marks
3. Identify the any three (A,B,and C) of breeds of dairy animals (diagram /model/ photograph)-
4. Identify the following D and E related diseases in the dairy animals (photograph/model/Diagram)

2x3=6marks

5. Field note book

05marks

- 6 . Certified record

10 marks

MODEL QUESTION PAPER

Course B.voc Dairy & animal husbandry

DAIRY HUSBANDRY MANAGEMENT PRODUCTION AND DAIRY DESIGN & DAIRY DEVELOPMENT

Time: 3 hours

Marks: 75

SECTION – A

(5x3=15)

Answer any FIVE Question carries FIVE Marks, (Draw a labeled diagram wherever necessary)

1. Embryo transfer
2. Artificial Insemination.
3. Characteristics of breeding dairy animal
4. Castration
5. Benefits of fodder
6. Significance of Dairy Business
7. Government scheme for development of dairy
8. Foot and Mouth disease to dairy animals

SECTION-B

Answers any FIVE Questions, carries TEN marks(5x2=10)

- 9 .a) Write an essay on Indian Dairy animals
(Or)
b) Explain the present status of dairy farm
- 10.a) Care and management of dairy animals, Explain
(Or)
b) Design and construction of Dairy housing system
- 11.a) Explain the digestive system of Ruminants
(Or)
b) Write about an essay on harvesting techniques
- 12.a) Write an essay on common diseases in dairy animals
(Or)
b) Write an essay on vaccine program
- 13.a) How to prepare for project report of establishment of dairy farm for apply of bank loan
(Or)
b) Explain the good management practice for dairy industry