Suggested outcomes for the course 'Dairy Husbandry I'

(Five Units with each unit having 12 hours of classwork. At the end of the course the student will demonstrate the following,
The student will be able to –

A. Remember and explain in a systematic way and acquire <u>knowledge with comprehensions</u>*

The student is exposed and given an introductory output on dairying in India in comparison to global scenario. He is given an input on the livestock census and on various breeds of dairy cattle, buffaloes, goats etc,

The student is also exposed to the anatomy of udder and milk secretion process in addition to the composition of milk, visavis colostrum.

He is made to understand the importance of artificial insemination in cows and buffaloes. And also in pregnancy diagnosis and other related topics.

Efforts will be made to provide knowledge on economic traits of dairy cattle, selection of dairy animals and progeny testing.

A brief introduction of various kinds of cattle breeding is also provided to the students which would make the student aware on necessities to be followed while in dairy industry.

B. Understand uses (<u>Application</u>**)

As far as the application part is concerned the students on getting enriched with the basic principles will be able to know on how a dairy farm can be started with the inputs provided to the students

C. Critically explains, judges and solves. (<u>Analytical, Evaluative and Problem Solving</u>***)

While in the course the students are given enough exposure by taking them to a conventional dairy farm and are taught on various aspects and in the meanwhile they will be assessed on their analytical, evaluative and problem solving skills.

SRI VENKATESWARA UNIVERSITY :: TIRUPATI

FIRST YEAR B.Sc. DAIRY SCIENCE
FIRST SEMESTER
Revised Syllabus Under CBCS W.E.F. 2020-21

COURSE-1 : DAIRY HUSBANDRY-I

THEORY   **(3 Credits)**

Unit-1:   Livestock census; Breeds of Dairy cattle, Buffaloes and Goats. Indigenous, Exotic and Crossbred Cattle breeds – classification of Indian breeds of cattle based on utility Classification of Indian breeds of buffaloes – conservation of indigenous local breeds of cattle.(15 Lectures)

Unit-2: Anatomy of Udder; Development of udder; Lacto genesis and Galactopoises; Letdown of milk – composition of milk and colostrum – Difference between milk of cows, buffaloes and goats. (10 Lectures)

Unit-3:   Artificial insemination- advantages and disadvantages-Differences between natural service and artificial insemination-Oestrous cycle; Symptoms of heat in cows and buffaloes.Conception, Pregnancy diagnosis in cattle. Multiovulation and embryo transfer technique. Cloning - (15 Lectures)

Unit-4: Economic traits of Dairy cattle - factors influencing yield and composition of milk. Methods of selection of dairy animals – progeny testing program. (15 Lectures)

Unit-5:   Systems of Dairy cattle breeding. Inbreeding,Out breeding, Cross breeding, Grading

up. Breeding systems suitable to enhance milk production in India (Cross breeding of cattle and Grading up of buffaloes).   (5 Lectures)

Practical: 2 **Credits**

1. Points dairy cow.
2. Identification of different breeds of dairy cattle and buffaloes.
3. Male and female reproductive systems.
4. Symptoms of heat in cow.
5. Artificial insemination.
6. Pregnancy diagnosis in cattle.
7. To study the comparative merits of cows and buffaloes;zebu and crossbred cows
8. Differences between swamp and river water buffaloes.
9. Importance of dairy wedges in dairy animal selection.

Reference Books

1. Text book of Animal Husbandry - G C Benarjee
2. Hand book of Animal Husbandry - ICAR Edition
3. Principles and practices of Dairy Farm ¬Jagdish Prasad

SRI VENKATESWARA UNIVERSITY

B.Sc. DEGREE COURSE IN DAIRY SCIENCE

W.E.F. 2020-21
<u>MODEL QUESTION PAPER</u>

Time: 3 hours   Marks: 75 marks

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer any five of the following questions in Part A.
Part B consists of 5 Units. Answer one full question (A or B) from each unit (i.e., Q.No 9 from Unit – I, Q.No 10 from Unit – II, Q.No 11 from Unit – III, Q.No 12 from Unit – IV, Q.No 13 from Unit – V). Each question carries 10 marks.

PART – A

Answer any _Five_ of the following question.   **(5X5=25M)**

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

PART – B

Answer All The Questions. Each question carries 10 marks (5X10= 50M)

9.	(A) OR (B)
10.	(A) OR (B)
11.	(A) OR (B)
12.	(A) OR (B)
13.	(A) OR (B)