## B.Sc. II Year Semester-III Skill Enhancement Course

(2 Credits) Lectures: 30

# **Artificial Insemination**

#### Unit-I

1.	Study of male and female reproductive systems.	(4h)			
2.	Gametogenesis and Oestrus cycle.				
3.	Semen: Definition, Collection by AV method, Collection technique,				
	Evaluation, Freezing, Handling and Storage.	(6h)			
4.	Heat detection.	(1h)			

### Unit-II

5.	Study of AI Equipments.	(4h)
6.	Time and Technique of AI.	(4h)
7.	Pregnancy diagnosis.	(2h)
8.	Visits to Veterinary Hospitals and AI Centres.	(5h)

#### **Reference Books:**

- 1. Advances in Dairy animal production Mudgal.
- 2. Dairy Bovine production CK Thomas.
- 3. Handbook of Animal husbandry ICAR publication.
- 4. Animal husbandry and Dairy Science Jagdish Prasad.
- 5. A text book of Animal husbandry G E Banerjee.
- 6. Livestock production and management NSR Sastri and Thomas.
- 7. Reproduction in farm animals Hafeez.
- 8. Animal Genetics and Breeding Dr. Satish Kulkarni, Dr. Pandurang Gangasagar.

## B.Sc. II Year Semester-III Skill Enhancement Course

## **Conservation of Green Fodder**

#### Unit-I

**Unit-II** 

2. Suit	2. Suitable crops for conservation and stage of harvesting.		(3h) (3h) (9h)
	b.	Types of silo pits and their dimensions.	
	c.	Ensiling, care during and after ensiling.	
	d.	Chemical changes during ensiling.	
4. Hay	making:		(10h)
	a.	Definition	
	b.	Characteristics of good quality hay	
	c.	Curing of hay	
	d.	Factors affecting quality of hay.	

5. Visit to Silage and Hay Unit. (5h)

#### **Reference Books:**

- 1. Silage and Hay Making, ICAR Chatterjee BN.
- 2. Applied Animal Nutrition-Feeds and Feeding Peter R. Cheeke.
- 3. Tropical feeds, FAO Gohl BO.
- 4. Fodder production and Grassland management for Veterinarians Reddy DV.
- 5. Feeds and Principles of Animal Nutrition –Banerjee GC.
- 6. Animal nutrition and feeding practices in India SK Ranjhan.