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**LPM-211 Ruminant Production and Management 2 (1+1)**

**Theory**

Role of livestock in the national economy. Reproduction in farm animals. Housing principles, space requirements for different livestock species. Management of calves, growing heifers and milch animals. Management of sheep and goat. Important Indian and exotic breeds of cattle, buffalo, sheep and goat. Improvement of farm animals. Digestion in ruminants. Classification of feed stuffs. Proximate principles of feed. Nutrients and their functions. Feed ingredients for ration for livestock. Feed supplements and feed additives. Feeding of livestock. Introduction of livestock diseases. Prevention (including vaccination schedule) and control of important diseases of livestock.

**Practical**

External body parts of cattle, buffalo, sheep and goat. Handling and restraining of livestock. Identification methods of farm animals. Visit to IDF to study breeds of livestock and daily routine farm operations and farm records. Judging of cattle and buffalo. Culling of livestock. Planning and layout of housing for different types of livestock. Computation of rations for livestock. Formulation of concentrate mixtures. Clean milk production, milking methods.

Economics of cattle, buffalo, sheep and goat.

**Lecture schedule:Theory:**

S. N.	Topic	No. of Lectures
1.	Role of livestock in the national economy.	02
2.	Reproduction in farm animals.	02
3.	Housing principles, space requirements for different livestock species.	01
4.	Management of calves, growing heifers and milch animals.	01
5.	Management of sheep and goat.	02
6.	Important Indian and exotic breeds of cattle, buffalo, sheep and goat	01
7.	Improvement of farm animals.	01
8.	Digestion in ruminants.	01
9.	Classification of feed stuffs. Proximate principles of feed.	01
10.	Nutrients and their functions. Feed ingredients for ration for livestock.	01

11.	Feed supplements and feed additives. Feeding of livestock.	01
12.	Introduction of livestock diseases.	01
13	Prevention (including vaccination schedule) and control of important diseases of livestock.	01

**Lecture schedule:Practical:**

<b>S. N.</b>	<b>Topic</b>	<b>No. of Lectures</b>
1.	External body parts of cattle and buffalo.	01
2.	External body parts of sheep and goat.	01
3.	Handling and restraining of livestock.	01
4.	Identification methods of farm animals.	01
5.	Visit to IDF to study breeds of livestock and daily routine farm operations and farm records	02
6.	Judging of cattle and buffalo.	01
7.	Culling of livestock	01
8.	Planning and layout of housing for different types of livestock.	01
9.	Computation of rations for livestock.	02
10.	Formulation of concentrate mixtures.	01
11.	Clean milk production, milking methods.	01
12.	Economics of cattle and buffalo.	02
13.	Economics of sheep and goat.	01

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