

Syllabus for B.Sc. (Hons) Agriculture Year – I (Sem. II)

Subject Code: 16AS0213

Subject Short Name: LPM. 2.1

Subject Name: Livestock and Poultry Management

Objective:

1. To Provide basic knowledge to the students about scientific livestock and poultry rearing practices
2. Entrepreneurship development through Livestock/poultry and Agriculture Integrated Farming System

Credits Earned: 2 Credits (1+1)

Course Outcomes: After completion of this course, Students will be able to

- Design and manage appropriate housing systems, feeding schedules, and biosecurity measures for different livestock and poultry species.
- Gain knowledge about incubation, hatching and brooding in poultry.
- Develop skills in identifying, preventing, and managing common diseases in livestock and poultry through vaccination, hygiene, and proper nutrition.
- Understand sustainable livestock and poultry farming practices

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE (E)	Mid Sem (M)	Progressive Assessment (PA)	Viva (V)	Term work (TW)	
1	0	2	2	40	20	20	10	10	100

Theory Content:

Unit	Topics	Contact Hours
1	Role of livestock in the national economy	2
2	Reproduction in farm animals and poultry. Housing principles, space requirements for different species of livestock and poultry	2

3	Management of calves, growing heifers and milch animals. Management of sheep, goat and swine. Incubation, hatching and brooding. Management of growers and layers.	2
4	Important Indian and exotic breeds of cattle, buffalo, sheep, goat, swine and poultry. Improvement of farm animals and poultry.	2
5	Digestion in livestock and poultry. Classification of feedstuffs. Proximate principles of feed. Nutrients and their functions	2
6	Feed ingredients for ration for livestock and poultry. Feed supplements and feed additives. Feeding of livestock and poultry.	2
7	Introduction of livestock and poultry diseases. Prevention (including vaccination schedule) and control of important diseases of livestock and poultry.	2
	Total	14

Practical Content:

Unit	Topics	Contact Hours
1	External body parts of cattle, buffalo, sheep, goat, swine and poultry.	2
2	Handling and restraining of livestock. Identification methods of farm animals and poultry.	2
3	Visit to IDF and IPF to study breeds of livestock and poultry and daily routine farm operations and farm records.	2
4	Judging of cattle, buffalo and poultry. Culling of livestock and poultry. Planning and layout of housing for different types of livestock. Computation of rations for livestock.	2
5	Formulation of concentrate mixtures. Clean milk production, milking methods.	2
6	Hatchery operations, incubation and hatching equipment. Management of chicks, growers and layers. Debeaking, dusting and vaccination.	2

7	Economics of cattle, buffalo, sheep, goat, swine and poultry production	2
	Total	14

Reference Books:

1. A Textbook of Animal Husbandry. G. C Banerjee, 8th Ed., 2019, Oxford and IBH Publishing House, New Delhi
2. A text Book of Livestock Production management in Tropic. D. N. Verma, 2005, Kalyani Publishers, New Delhi

Suggested Theory distribution:

The suggested theory distribution as per Bloom's taxonomy is as per follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process.

Distribution of Theory for course delivery and evaluation					
Remember	Understand	Apply	Analyze	Evaluate	Create
25%	25%	20%	10%	10%	10%

Instructional Method:

1. The course delivery method will depend upon the requirement of content and need of students. The teacher in addition to conventional teaching method by white board may also use any of tools such as demonstration, role play, quiz, brain storming, MOOCs etc.
2. The internal evaluation will be done on the basis of continuous evaluation of students in the class-rooms.
3. Practical examination will be conducted at the end of semester for evaluation of performance of students in laboratory/ field.
4. Students will use supplementary resources such as online videos, NPTEL videos, e-courses, Virtual Laboratory.