

ANIMAL SCIENCE

Course Code: LPM 101

Course Title: Introductory Animal Science

Credit Hours: 3 (2+1) Full Marks: 75 Theory: 50 Practical: 25

OBJECTIVES

Upon the completion of the course, the students will be able to understand the domestication of farm animals and avian species; they will also be able to know general husbandry practices of farm animals and avian species.

I. SYLLABUS

Introduction, commonly used terms of animal husbandry and poultry. Importance, scope and constraints of livestock and poultry farming in Nepal. Zoological classification of farm animals and poultry birds. Most common breeds of farm animals and poultry birds. Differences between ruminants and non-ruminants animals. Common housing system of farm animals and poultry. Identification ageing, weighing, castration, dehorning/debudding of farm animals. Restraining and handling of farm animals. Marketing and transportation of farm animals and poultry. Importance and types of farm record. Sign of good health, factor affecting health of farm animals. Stress amelioration practices of farm animals. Care and management of different categories of farm animals. High mountain animals, characteristics, management and feeding. Importance of barn sanitation and waste handling. Conservation practices of forage, use of NPN in ruminant feeding.

II. Course Outline

A. Lecture

S.N.	Topic	No. of lectures
1.	Introduction, commonly used terms of animal husbandry and poultry.	1
2.	Importance, scope and constraints of livestock and poultry farming in Nepal.	1
3.	Zoological classification of farm animals and poultry birds	1
4.	Most common breeds of farm animals and poultry birds? Breeds of cattle, buffalo, sheep, goat, swine and poultry (Holstein friesian, Jersey, Brown-swiss, Ayrshire, Hariana, Sahiwal, Red sindhi, Lulu, Achhami, Siri, Pahadi, Murrah, Jaffarabadi, Nilli ravi, Surti, Mehsana, Lime, Parkote, Gaddi, Merino, Rambouillet, Polworth, Leicester, Lincoln, Kage, Lampuchhre, Baruwat, Dhorel, Bhyangulung, Hampshire, Saanen, Toggnberg, Jamunapari, Barberi, Beetal, Black Bengal, Teraigoat, Khari, Sinhah, Chyangra, Yorkshire,	6

	Landrace, Duroc, Tameworth, Hurra, Bampudke, Pakhribas black, Plymouth rock, RhodeIsland Red, New Hampsire, Australorp, Sussesex, Leghorn, Sakini, Pwankh ulte, Naked neck.)	
5.	Differences between ruminant and non-ruminant animals	1
6.	Common housing system of farm animals and poultry	2
7.	Identification ageing, weighing, castration, dehorning/disbudding of farm animals	3
8.	Restraining and handling of farm animals.	1
9.	Marketing and transportation of farm animals and poultry	2
10.	Importance and types of farm record	1
11.	Sign of good health, factor affecting health of farm animals	1
12.	Stress amelioration practices of farm animals	2
13.	Care and management of different categories of farm animals? Newly born calves, pregnant, lactating animals, bullock, breeding bull and sick animal	3
14.	High mountain animals, characteristics, management and feeding (yak, Nak, Chauri, Mule and Donkey)	2
15.	Importance of barn sanitation and waste handling	1
16.	Conservation practices of forage, use of NPN in ruminant feeding	2
Total		30

B. Practical

S.N.	Topic	No of practicals
1.	Study of commonly used lab equipments	1
2.	Identification of external body parts/points of farm animals and poultry birds	2
3.	Identification/numbering of farm animals and poultry.	1
4.	Identification of breeds of farm animals and poultry	2
5.	Castration of farm animals	1
6.	Dehorning/disbudding of farm animals	1
7.	Estimation of body weight through body measurement of farm animals	1
8.	Age determination by dentition of farm animals	2
9.	Casting and handling of farm animals	1
10.	Differences between layers and loafers	1
11.	Study of different types of farm records	1
12.	Cleaning and disinfection of animals barn	1
Total		15

REFERENCES

Thomas, C.K., N.S.R. Sastry and R.A. Singh, Livestock Production and Management, Kalyani Publishers, India

Banerjee. G. C. 2006. A Text Book of Animal Husbandry, Oxford and IBH Publishing Co-Pvt. Ltd, New Delhi.

Thomas, C.K., N.S.R. Sastry 1991. Dairy Bovine Production Kalyani Publishers, India