

ARAWALI VETERINARY COLLEGE

Department of Livestock Production Management



LECTURE SCHEDULE (as per MSVE 2016 Regulation)

Name of the Course	B.V. Sc & A.H
Name of the subject	Livestock Production Management
Professional Year	2025-2026
Credit Hours	4+2

THEORY		
Lecture No.	Topic	Name of Course teacher
Unit 1 - General Livestock Management		
1-2	Demographic distribution of livestock & role in Indian economy; Problems & prospects of livestock industry in India	Dr. Prashant Saharan
3	Animal holding & land holding patterns in different agro-climatic zones	Dr. Prashant Saharan
4	Introduction to Livestock Production systems including Organic livestock production	Dr. Prashant Saharan
5	Common animal husbandry terms related to cattle, buffalo	Dr. Prashant Saharan
6	Common animal husbandry terms related to sheep, goat, pig	Dr. Prashant Saharan
7	Common animal husbandry terms related to horse, camel, yak & mithun	Dr. Prashant Saharan
8	Body conformation & methods of identification in livestock	Dr. Prashant Saharan
9	Transportation of livestock & wild/zoo animals	Dr. Prashant Saharan
10-11	Common farm management practices including disinfection, isolation, quarantine & disposal of carcasses	Dr. Prashant Saharan
12-13	Common farm management practices including disinfection, isolation, quarantine & disposal of carcasses	Dr. Prashant Saharan
14	Introduction to the methods of drug administration.	Dr. Prashant Saharan
15	Common vices of animals (cattle, buffalo, sheep & goat), their prevention and care	Dr. Prashant Saharan
16	Preparation of animals for show, Judging & BCS for body parts of livestock	Dr. Ranjit Rewar
17	Culling of animals; Selection & purchase of livestock	Dr. Prashant Saharan
Unit – 2 Fodder Production & Conservation		
18	Importance of grasslands and fodder in livestock production.	Dr. D. Sreekumar
19-21	Agronomical Practices for fodder production- Environment , soil type , Land preparation, sowing time , sowing method, seed rate, manure/fertilizer, irrigation , weed control, harvesting time , method and yield.	Dr. D. Sreekumar
22-23	Agronomical Practices for fodder production-cereal fodder- Kharif and summer season-Jowar , Bajra, Maize Rabi season -Teosinte and Oats	Dr. D. Sreekumar
24-25	Agronomical Practices for fodder production of annual and perennial grass fodder- Hybrid Napier ,Guinea grass, Para grass, Deenanath , Marvel grass, Rhodes grass, Sudan grass and Anjan grass	Dr. D. Sreekumar

26	Agronomical Practices for fodder production -Legume crops Kharif and summer season - Cowpea, Rice bean Velvet bean, Guar and Soyabean	Dr. D. Sreekumar
27	Agronomical Practices for fodder production-Legume crops Rabi season -Lucerne, Berseem, Methi and Senji	Dr. D. Sreekumar
28	Soil and Water conservation and drainage of water for fodder production.	Dr. D. Sreekumar
29-31	Fodder production for small livestock units (backyard cultivation, intercropping, fodder production on waste land/low lying area bunds, charies, canals, azolla & hydroponics)	Dr. D. Sreekumar
32	Structures for storage of feeds and fodders.	Dr. D. Sreekumar
33-34	Preservation of green fodder- Silage and Hay making Scarcity fodder trees- Acacia, Banyan, Peepal, Glyciridia, Mango, Neem, Tamarind, Bilayati, Subabool, Other sources- Failed crops, Crop residues , Plant oriented wastes, Agro- Industry wastes	Dr. Prashant Saharan
35	Recycling of animal washings and wastes in fodders production and use of recycle waste.	Dr. D. Sreekumar
Unit – 3 Livestock Production Management-Ruminants		
36	Housing systems, layout and design of different buildings for animals	Dr. D. Sreekumar
37	Selection of site. General principles affecting the design and construction of building for housing of cattle & buffalo.	Dr. D. Sreekumar
38	Selection of site. General principles affecting the design and construction of building for housing of Sheep & Goat.	Dr. D. Sreekumar
39-40	Building materials used for construction of wall, roof and floor of animal houses, their characteristics, merits and demerits. Utilization of local materials.	Dr. D. Sreekumar
41	Arrangements of the building with special reference to Indian conditions.	Dr. D. Sreekumar
42-43	Breeds of cattle and buffalo and descriptions of important breeds.	Dr. D. Sreekumar
44	Economic traits of cattle and buffaloes.	Dr. D. Sreekumar
45-46	General management and feeding practices of calves, heifers, pregnant and lactating animals.	Dr. Prashant Saharan
47-48	General management and feeding practices of dry animals, bulls and working animals.	Dr. Prashant Saharan
49	Draught ability of cattle and buffaloes.	Dr. Prashant Saharan
50	Raising of buffalo males for meat production	Dr. Prashant Saharan
51-52	Routine animal farm operations and labour management	Dr. Prashant Saharan
53	Animal farm accounts and records.	Dr. Prashant Saharan
54-55	Methods of milking and precautions. Factors affecting quality and quantity of milk production. Clean milk production	Dr. Prashant Saharan
56-57	Breeds of sheep and goat and their descriptions. Important economic traits for meat, milk and fibre.	Dr. Prashant Saharan
58-59	General management and feeding practices during different stages of growth, development and production (milk, meat and wool).	Dr. Prashant Saharan
60	Breeding schedule and management of ram and buck. Weaning and fattening of lambs and kids	Dr. Prashant Saharan
Unit – 4 Zoo Animals Production Management		
61	Taxonomy of important wild zoo animals.	Dr. D. Sreekumar
62	Taxonomy of important wild zoo animals.	Dr. D. Sreekumar
63	Status and conservation practices of wild life in India.	Dr. D. Sreekumar

64-65	Basic principles of habitat and housing of various classes of wild zoo animals.	Dr. D. Sreekumar
66-67	Size and space requirement (dimension) of cubicles, enclosures of important wild zoo animals.	Dr. D. Sreekumar
68	Management of livestock in fringe areas, in and surrounding the breeding areas.	Dr. D. Sreekumar
69	Feeding habits of captive animals.	Dr. D. Sreekumar
70	Feeds and feeding schedules of captive animals.	Dr. D. Sreekumar
71-72	Restraining, capture, handling, physical examination of captive animals.	Dr. Prashant Saharan
73-74	Classification of zoos, general management practices of sanctuaries, national parks etc.	Dr. D. Sreekumar
75	Acts and Rules related to captive animals.	Dr. D. Sreekumar
76	National and international organization and institutions interlinked to captive animals role and functioning.	Dr. Prashant Saharan
Unit – 5 Animal Welfare		
77	Definition of animal welfare and ethics. Human and animal welfare in relation to ecosystem and environmental factors.	Dr. Prashant Saharan
78	Role of veterinarians in animal welfare.	Dr. Prashant Saharan
79-80	List of Animal welfare organizations. Animal Welfare Board of India - their role, functions and current status.	Dr. Prashant Saharan
81-82	Rules, regulations, laws on animal welfare. Prevention of Cruelty to Animals (PCA) Act, 1960 {59 of 1960}	Dr. Prashant Saharan
83	Role and function of Committee for the Purpose of Controlling and Supervising Experiments in Animals (CPCSEA).	Dr. Prashant Saharan
84	Protection of wild life in nature and captivity.	Dr. Prashant Saharan
85	Protection and welfare of performing animals.	Dr. Prashant Saharan
86	Welfare of animals during transportation.	Dr. Prashant Saharan
87	Animal welfare in commercial livestock farming practices. Protection and welfare of working animals.	Dr. Prashant Saharan
88	Pet and companion animal welfare.	Dr. D. Sreekumar
89	Animal welfare during natural calamities and disaster management.	Dr. Prashant Saharan
90-91	Legal duties of veterinarians, Common offences against animals and laws related to these offences.	Dr. Prashant Saharan
92	Provincial and Central Acts relating to animals. Laws relating to offences affecting Public Health.	Dr. Prashant Saharan
93-94	Livestock Importation Act Evidence, liability and insurance. Code of Conduct and Ethics for veterinarians - the Regulations made under the Act.	Dr. Prashant Saharan
95	Role and function of Committee for the Purpose of Controlling and Supervising Experiments in Animals (CPCSEA).	Dr. Prashant Saharan
Unit – 8 Laboratory or Rabbit or Pet Animal Production Management		
96	Importance of lab animals in research and selection of laboratory animals for research.	Dr. D. Sreekumar
97-98	Care and housing standards of mice, rats, hamster, guinea pigs & rabbit.	Dr. D. Sreekumar
99	General considerations on feeding and breeding of laboratory animals.	Dr. D. Sreekumar
100	Concept of production of specific pathogen free and germ free laboratory animals.	
101-102	Scope of rabbit farming in the country, breeds and their distributions in India. Limitation of rabbit animal production. Selection, care and management of breeding stock for commercial purpose.	Dr. D. Sreekumar

103	Identification, care and management of kindling animals. Care of new born, growing stock.	Dr. D. Sreekumar
104	Breeding and selection techniques for optimal production of rabbit.	Dr. D. Sreekumar
105	Feeds and feeding for rabbit production.	Dr. D. Sreekumar
106-107	Hygienic care and Housing for rabbit production. Disposal, utilization and recycling of waste etc.	Dr. D. Sreekumar
108	Preparing projects for micro (Backyard), mini and major rabbit farms.	Dr. D. Sreekumar
109	Important breeds of dogs, cats and pet birds.	Dr. D. Sreekumar
110	Feeding of dogs, cats and pet birds.	Dr. D. Sreekumar
111-112	Dog show: preparation for show, kennel clubs, important characteristics for judgment.	Dr. D. Sreekumar
113-114	Utility of dogs- guarding, defense, patrolling, riot control, scouting, espionage, mine detection, tracking, guiding, hunting, races, retrieving rescue and other uses.	Dr. D. Sreekumar
Unit – 9 Swine or Equine or Camel, Yak And Mithun Production Management		
115	Introduction and scope of swine farming in the country. Demography of swine population.	Dr. Ranjit Rewar
116-118	Selection and breeding techniques in swine. Important breeds (exotic and indigenous) & their characteristics.	Dr. Ranjit Rewar
119	Housing and feeding of swine.	Dr. Ranjit Rewar
120-121	Management of breeding and pregnant sows; sows at farrowing and after farrowing:	Dr. Ranjit Rewar
122-123	Management of pig-lets, growing stock, lactating sows, and feedlot stock.	Dr. Ranjit Rewar
124-126	Equine population of India. Horses, donkeys and mules and their utility. Identification of breeds of horses, colors and markings.	Dr. Ranjit Rewar
127-128	Dentition & ageing of horse's .Care and routine management of equines including grooming, saddling and exercise.	Dr. Ranjit Rewar
129	Stable and its management. Vices of horses. Foot care and shoeing care of horses.	Dr. Ranjit Rewar
130-131	Feeding routine for horse, donkeys and mules. Care of stallion.	Dr. Ranjit Rewar
132-133	Mating of horses, brood mare and its care. Foaling and care of newborn.	Dr. Ranjit Rewar
134-135	Breeding mules. Care of race horses and preparing horses for show. Doping and its detection. Colic and its prevention.	Dr. Ranjit Rewar
136	Common breeds of camel in India and their utility, peculiarities in camel. Feeding schedule of camel, rutting symptoms in camel.	Dr. Ranjit Rewar
137	Vices of camel. Care of breeding in camel, pregnancy and parturition of camel.	Dr. Ranjit Rewar
138-140	Population statistics and utility, peculiarities of yak. Feeding and breeding of Mithun or Yaks. Yak × cattle crossing, hybrids from Mithun or Yaks and their adaptation to high altitude, milk composition of Mithun or Yaks.	Dr. Ranjit Rewar

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PRACTICAL

Unit – 1 General Livestock Management

Lecture no.	Topic	Name of Course teacher
1	General introduction of the Institute animal farm	Dr. Prashant Saharan
2-3	Identification of common tools used on animal farm	Dr. Prashant Saharan
4-5	Familiarization of body points of animals Cattle & Buffalo	Dr. Prashant Saharan
6-7	Familiarization of body points of animals Sheep, Goat, Pig & Horse	Dr. Ranjit Rewar
8	Methods of Identification (marking, tattooing, branding, tagging & electronic chip)	Dr. Prashant Saharan
9	Approaching and handling of animals. Use of rope for knot & halter making.	Dr. Prashant Saharan
10	Dentition & ageing of animals Cattle & Buffalo	Dr. Prashant Saharan
11-12	Dentition & ageing of animals Sheep, Goat, Pig & Horse	Dr. Ranjit Rewar
13	Preparation of animals for show, judging, fairs and melas	Dr. Ranjit Rewar
14	Selection and culling of animals	Dr. Prashant Saharan
15	Preparation of project proposal Cattle & Buffalo	Dr. D. Sreekumar
16-17	Preparation of project proposal Sheep & Goat	Dr. D. Sreekumar

Unit – 2 Fodder Production & Conservation

Lecture no.	Topic	Name of Course teacher
18-19	Visit to the fodder farm. Familiarization with the various types of fodders in the state and India.	Dr. Prashant Saharan
20	Familiarization with various fertilizers and manures	Dr. Prashant Saharan
21-23	Collection, preservation and storage of feed and fodder	Dr. Prashant Saharan
24	Damages or loss during transport and storage; methods to prevent them	Dr. D. Sreekumar
25	Cost of calculations of fodder production.(One Cereal & one legume crop)-----	Dr. D. Sreekumar
26	Livestock waste utilization and recycling.	Dr. Prashant Saharan

Unit – 3 Livestock Production Management-Ruminants

Lecture no.	Topic	Name of Course teacher
27	Layout plans for different livestock houses	Dr. D. Sreekumar
28-29	Visit to different animal farms and Identification of various breeds of cattle, buffalo, sheep and Goat	Dr. Ranjit Rewar
30-31	Humane handling , restraining & casting of cattle, buffalo, sheep and Goat	Dr. Prashant Saharan
32	Clipping, shearing, dipping, spraying and spotting sick animals.	Dr. Prashant Saharan
33	Determination of body weight using different measurements.	Dr. Prashant Saharan
34	Familiarization with routine cattle, buffalo, sheep and goat farm operations	Dr. Ranjit Rewar
35	Milking of dairy animals.	Dr. Ranjit Rewar
36	Training of breeding males	Dr. Ranjit Rewar
37	Detection of heat. Identification and care of pregnant animals, care of neonatal and young stock	Dr. Prashant Saharan
38	Economics of dairy farm.	Dr. D. Sreekumar
39	Economics of sheep or goat farm	Dr. D. Sreekumar

Unit – 4 Zoo Animals Production Management

Lecture no.	Topic	Name of Course teacher
40	Visit to nearby wildlife sanctuary/zoo, captive animals centres to study care and management of these animals.	Dr. D. Sreekumar
41	To study housing of captive animals.	Dr. D. Sreekumar
42 - 43	To study feeds and feeding schedule of captive animals.	Dr. D. Sreekumar
44 - 45	Hygienic preparation, preservation and storage of feeds of captive animals.	Dr. D. Sreekumar
46 – 47	Familiarization about restraining, handling of captive animals.	Dr. Prashant Saharan
48	Physical examination of captive animals.	Dr. D. Sreekumar

Unit – 7 Laboratory or Rabbit or Pet Animal Production Management

Lecture no.	Topic	Name of Course teacher
49	Identification of body parts and handling, weighing, sexing and weaning of laboratory animals.	Dr. D. Sreekumar
50 – 51	Marking for identification of laboratory animals for purpose of their individual recording. Maintenance of breeding records of laboratory animals.	Dr. D. Sreekumar
52 – 53	Computation, feeding schedule of balanced diet for high breeding efficiency of laboratory animals. Prophylactic measures against common disease of laboratory animals. Hygienic care and control of parasites.	Dr. D. Sreekumar
54 – 55	Shearing of rabbit. Feeding and Housing requirement and equipments for rabbit. Projects report for establishing of rabbit farm.	Dr. D. Sreekumar
56 – 57	Handling and restraining of dog, cat and pet bird and equipments for pet animals and birds.	Dr. D. Sreekumar
58 – 59	Brushing or grooming and bathing of dogs and cats. Nail and tooth care, clipping of hairs for show purpose.	Dr. D. Sreekumar
60	Care of pups, kitten and weaning.	Dr. D. Sreekumar

Unit – 8 Swine or Equine or Camel, Yak and Mithun Production Management

Lecture no.	Topic	Name of Course teacher
61	Handling and restraining of swine, equine and camels.	Dr. Ranjit Rewar
62 – 63	Identification of pregnant animals, care during pregnancy, isolation and care of farrowing sows and piglets.	Dr. Ranjit Rewar
64	Preparation of swine and equine for show and judging.	Dr. Ranjit Rewar
65 – 66	Preparation of plans for sty and stables. Economics of pig farming.	Dr. Ranjit Rewar
67 – 68	Routine inspection of pig, tooth care and Vaccination schedule of pig	Dr. Ranjit Rewar
69 – 70	Horse riding, walking, trotting cantering and galloping.	Dr. Ranjit Rewar

