

Annexure - I

COLLEGE OF VETERINARY SCIENCE & ANIMAL HUSBANDRY
ALLAHABAD AGRICULTURAL INSTITUTE – DEEMED UNIVERSITY,
ALLAHABAD – 211 007.

REVISED CODE AND SYLLABUS OF M.Sc. PROGRAMMES
 (As per R/101/A – 18 (i) / 2004 dated 29.03.2004; AC/ 9 / 2004 – 8)

M. Sc. ANIMAL PRODUCTION MANAGEMENT

SEMESTER - I

V.Sc. – 603	Livestock Production Management (LPM)	2 + 2 = 3	D
V.Sc. – 605	Animal Production Management (APM)	2 + 2 = 3	D
MAS – 711	Statistics – I	2 + 2 = 3	
APM – 708	Principles of Dairy Farm Management (PDFM)	2 + 2 = 3	
APM – 709	Practices of Dairy Cattle Management (PDCM)	2 + 2 = 3	
		15	

SEMESTER – II

V.Sc. – 604	Animal Health and Hygiene (AHH)	1 + 2 = 2	D
COMP – 609	Computer Orientation (COMP)	2 + 2 = 3	
MAS – 715	Statistics – II	2 + 2 = 3	
AN – 717	Animal Physiology (AP)	2 + 0 = 2	
AN – 719	Livestock and Poultry Nutrition (LPN)	2 + 2 = 3	
APM – 720	Management of Farm Animals (MFA)	2 + 2 = 3	
		17	

SEMESTER – III

Econ – 705	Research Methodology (RM)	2 + 2 = 3	
PP – 819	Hatchery Management (HM)	2 + 0 = 2	
PP – 822	Poultry Farm Management (PFM)	2 + 2 = 3	
APM – 823	Sheep Production Management (SPM)	2 + 2 = 3	
APM – 824	Goat Production Management (GPM)	2 + 2 = 3	
APM – 825	Swine Production Management (SM)	2 + 2 = 3	
APM – 880	Seminar	0 + 4 = 2	
		19	

SEMESTER – IV

APM – 899	Dissertation	0 + 30 = 15	
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DEFICIENCY COURSES

V.Sc. – 603 *LIVESTOCK PRODUCTION MANAGEMENT (LPM)*

Credit : 2 + 0 + 2 = 3

Common terms, Livestock and milk production statistics, Importance of Livestock, Important breeds of cattle & buffaloes, Care and management of dairy calves, heifers, bulls and cows. Dairy farm buildings – objectives, advantages, factors affecting location and grouping, Design of barns, clean milk production, dairy farm records. Classification of feeds and fodders, agro – industrial byproducts, Management practices in feeding, soiling, ensiling, hay making, pasturing, Developing practical and economical rations. Planning supply of green fodder throughout the year, Digestive system, Digestive traits. Methods and systems of breeding, Detection of oestrus & pregnancy, Hormones and their role in production and reproduction. Reproductive organs of cow and bull, A. I.; sterility and its causes.

V. Sc. – 604 *ANIMAL HEALTH & HYGIENE (AHH)*

Credit : 1 + 0 + 2 = 2

Basic herd health programme, Sanitation of herd, Dipping & shearing of animals. Diagnosis of diseases, classifications of diseases, Signs of ill health and preventive measures. Principles of immunization and vaccination schedule for various farm animals. Important diseases of dairy animals, goat, sheep, pig and poultry; their etiology, symptoms, pathogenesis, diagnosis, treatment, prevention and cure.

- a) Mastitis and its control,
- b) Prevention and control of F.M.D., R.P., Rabies and Bucellosis,
- c) Prevention and cure of coccidiosis, Ranikhet and Salmonellosis.

Euthanasia of animals – conditions and various drugs used for euthenizing the animals.
Anesthesia of animals – various sedatives and tranquilizers used in farm animals.

Animal quarantine.

V.Sc. – 605 *ANIMAL PRODUCTION AND MANAGEMENT (APM)*

Credit : 2 + 2 = 3

1. Goat :

Common terms, importance, Important breeds, Breeding, Feeding, care of kids, Management practices : tethering, age determination, disbudding, castration, hoof trimming, Goat housing, Preventive measures of diseases and vaccination, Goat milk and meat, Pasmina and Mohair.

2. Sheep :

Common terms, importance, important breeds, Breeding, Feeding, Management practices – lambing, care of ewe at and after lambing, Care of lamb, Docking, castration, Dipping, Shearing, Observation regarding sick vs. healthy animals, wool – related terms, wool yield, grading parameters for judging wool quality.

3. Pigs :

Common terms, importance, important breeds, Feeding, Management of piglets, sow and boar, Breeding, Housing, Pig fenders, selection of hogs for slaughter and methods of slaughter, and Health care.

4. Poultry :

Common terms, importance of poultry industry, layers feeding and management, broiler management, Grading of eggs, selection of eggs for hatching, Egg preservation, Culling of layers.

CORE COURSES

APM - 708 *PRINCIPLES OF DAIRY FARM MANAGEMENT (PDFM)* Credit : 2 + 0 + 2 = 3

Development of dairy industry in India, comparison of dairy farming in India with advanced centers, Livestock statistics, causes of low productivity of dairy animals, Types of dairy farming, Economic dairy farming, Starting a dairy farm, capital and land requirement, Dairy farm organization, Procurement of goods, opportunities in dairy farming, factors determining efficiency of dairy animals, Adaptation, Ventilation and lighting on dairy buildings, Principles of good milking, Personnel management.

APM - 709 *DAIRY FARM MANAGEMENT PRACTICES (DFMP)* Credit : 2 + 0 + 2 = 3

Breed selection and Breeding, Breeding policy, Management of dairy bull and training for A. I,

Detection of heat in dairy animals, Pregnancy diagnosis, care of dry cows, care of cows at and after calving, care of lactating animals, Raising dairy calves, Care and Management of heifers, Maintenance of fertility in herd, culling sterile cows, supply of greens all year round. General management practices -

Judging, marking, castration, dehorning / disbudding, age determination, Body weight, determination, Judging, milking methods, sanitary milk production, Herd recording. Evaluation of dairy in open market, transportation.

AN - 717 *ANIMAL PHYSIOLOGY (AP)* Credit : 2 + 0 = 2

AN - 719 *LIVESTOCK & POULTRY NUTRITION (LPN)* Credit : 2 + 0 + 2 = 3

APM - 720 *MANAGEMENT OF DAIRY ANIMALS (MDA)* Credit : 2 + 0 + 2 = 3

Contribution of livestock, Farm budgeting, cost of milk production, Pricing policy, storage of milk, Maintenance of records on dairy farm, Control of reproductive diseases, Feeding practices, Developing practical economical rations, Formulation of least cost ration, Feeding regimes for dairy animals, Dairy Cattle Housing and layout of dairy farms, Technological development in milking barn and parlour, water supply utilization of solid and liquid wastes. Biogas Technology, Scoring management, Economics of dairy farming and project formulation.

PP - 819 *HATCHERY MANAGEMENT (HM)* Credit : 2 + 0 = 2

PP - 822 *POULTRY FARM MANAGEMENT (PFM)* Credit : 2 + 0 + 2 = 3

APM - 823 *SHEEP PRODUCTION MANAGEMENT (SPM)* Credit : 2 + 0 + 2 = 3

Present status and contribution of sheep industry in India constraints in sheep development programmes and suggestions to overcome, breeds of sheep, breeding management of lambs and sheep, Feeding of sheep, Management practices and housing, Health care management, sheep products, wool, mutton, skin, etc. Wool vs hair, Wool grading and evaluation. Judging quality of mutton, Record maintenance on sheep farm, Economics of sheep farming.

APM – 824 *GOAT PRODUCTION MANAGEMENT (GPM)* Credit : 2 + 0 + 2 = 3

Present status and contribution of goat industry in India, constraints in goat development and measures to overcome, Breeds of goats and breeding management, Management of kids and goats, Housing of goats, Feeds and feeding of different class of goats, Health care and management of goats. Goat products – milk, chevon, skin, Mohair, Pashmina, manure, etc. Therapeutic value of goat milk; judging and evaluation of chevon, Economics of goat farming.

APM – 825 *SWINE PRODUCTION MANAGEMENT (SM)* Credit : 2 + 0 + 2 = 3

Present status and contribution of swine industry, reasons for poor growth of hog industry, Breeds and Breeding management of pigs, Feeding different categories of pigs, management practices and housing of pigs, maintenance of records, Health care management on pig farm, slaughter of pigs, Pork and pork products, curing and smoking of pork, Economics of pig farming and project formulation.

APM – 880 *SEMINAR* Credit : 0 + 4 = 2

APM – 899 *DISSERTATION* Credit : 0 + 30 = 15

SUPPORTING COURSES

MAS – 711 *STATISTICS – I* Credit : 2 + 0 + 2 = 3

MAS – 715 *STATISTICS – II* Credit : 2 + 0 + 2 = 3

COMP – 609 *COMPUTER ORIENTATION* Credit : 2 + 0 + 2 = 3

ECON – 705 *RESEARCH METHODOLOGY* Credit : 2 + 0 + 2 = 3