

PAPER – V: Introductory Animal Nutrition

Course No. AHD-251; Cr. Hrs. 2 (1+1)

Theory

1. Composition of animal body and plants.
2. Nutritional terms and their definitions.
3. Common feeds and fodders, their classification, availability and importance for livestock and poultry production.
4. Various physical, chemical and biological methods of feed processing for improving the nutritive value of inferior quality roughages.
5. Preparation, storage and conservation of livestock feed through silage and hay and their uses in livestock feeding.
6. Harmful natural constituents and common adulterants of feeds and fodders.
7. Feeding standard, their uses and significance, merit and demerits of various feeding standard with reference to ruminants
8. Use of NPN compounds for ruminants

Practical

1. Familiarization of various feed stuff, fodder and their selection.
2. Preparation and processing of samples for chemical analysis – herbage, faeces, urine and silages.
3. Demonstration of laboratory ensiling of green fodders. Silage pit preparation.
4. Improving nutrient state of low quality fodder by Physical methods
5. Improving nutrient state of low quality fodder by Chemical methods
6. Improving nutrient state of low quality fodder by Biological methods

Semester II

Course No. AHD-252; Cr. Hrs. 2 (1+1)

Theory

1. Importance of minerals (major and trace elements) in health and production, their requirements and supplementation in feed.
2. Importance of vitamins in health and production, their requirements and supplementation in feed.
3. Feed additives in the rations of livestock and poultry.
4. Balanced ration and its characteristics
5. General principles of computation of rations
6. Formulation of rations and feeding of dairy cattle and buffaloes during different phases of growth, development and production (neonate, young, mature, pregnant, lactating and dry animals; breeding bull and working animals).
7. Formulation of ration and feeding of sheep during different phases of growth, development and production (milk, meat and wool).

8. Formulation of ration and feeding of goat during different phases of growth, development and production (milk, meat and hairs).
9. Feeding of diseased animals.
10. Grazing farm management.

Practical

1. Formulation of rations for cattle and buffalo with conventional and unconventional feed ingredient
2. Formulation of rations for sheep with conventional and unconventional feed ingredient
3. Formulation of rations for goat with conventional and unconventional feed ingredient
4. Formulation of rations for swine with conventional and unconventional feed ingredient
5. Formulation of rations for poultry with conventional and unconventional feed ingredient
6. Formulation of rations for feeding of livestock during scarcity

Hospital Practice Course no. (Non Credit Course)

AHD 261:(0+6) First semester and AHD 262 : (0 + 6) Second semester

Hands on training and skill development in routine practices to be followed in medicine, surgery and gynecology clinics. Preliminary knowledge of Diagnosis and treatment. Introduction of A.I. Assistance to Doctor's of different Clinical Departments.