

Mahatma Jyotiba Fule College of Veterinary & Animal Sciences, Chomu, Jaipur (R.J.)

Department of Animal Nutrition

Practical schedule (Session 2020-21)

Units- 1,2,3,4

Duration of Lecture Class:-13.11.2021 to 08.07.2021

Subject- Animal Nutrition

Credit Hrs- 3+1

| S.N. | Practical No. | Date | Topic | Hrs |
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| | | | <u>UNIT-1 (Principles of Animal Nutrition & Feed Technology):</u> | |
| 1 | 1 | 13-11-20 | General introduction and outline of practical syllabus | 2 |
| 2 | 2 | 20-11-20 | General precaution while working in nutrition research laboratory | 2 |
| 3 | 3 | 27-11-20 | Familiarization of various feed stuffs, fodder and their selection | 2 |
| 4 | 4 | 03-12-20 | Preparation and processing of samples for chemical analysis- herbage, faeces, urine and silages | 2 |
| 5 | 5 | 10-12-20 | Weende's system of analysis | 2 |
| 6 | 6 | 17-12-20 | Estimation of Dry Matter in feed samples | 2 |
| 7 | 7 | 24-12-20 | Estimation of Total Ash in feed samples | 2 |
| 8 | 8 | 31-12-20 | Estimation of Acid Insoluble Ash in feed samples | 2 |
| 9 | 9 | 07-01-21 | Estimation of Crude Protein in feed samples | 2 |
| 10 | 10 | 14-01-21 | Estimation of Ether Extract in feed sample | 2 |
| 11 | 11 | 21-01-21 | Estimation of Crude Fibre in feed samples | 2 |
| 12 | 12 | 28-01-21 | Estimation of nitrogen free extract in feed samples | 2 |
| 13 | 13 | 04-02-21 | Estimation of Calcium in feed samples | 2 |
| 14 | 14 | 11-02-21 | Estimation of phosphorus in feed samples | 2 |
| 15 | 15 | 18-02-21 | Demonstration of detergent method of forage analysis | 2 |
| 16 | 16 | 25-02-21 | Qualitative detection of undesirable constituents and common adulterants in feed | 2 |
| | | | <u>UNIT-2 (Applied Ruminant Nutrition I):</u> | |
| 17 | 1 | 18-03-21 | Determination of digestibility | 2 |
| 18 | 2 | 25-03-21 | Calculation of nutritive value of different feed stuffs in terms of DCP, TDN, NR and SE | 2 |
| | | | <u>UNIT-3 (Applied Ruminants Nutrition II):</u> | |
| 19 | 1 | 08-04-21 | Calculation of requirements of ME for maintenance, growth and production | 2 |
| 20 | 2 | 15-04-21 | Formulation of rations for different categories of livestock under different conditions | 2 |
| 21 | 3 | 22-04-21 | Formulation of ration for cattle and buffalo | 2 |
| 22 | 4 | 29-04-21 | Formulation of rations for sheep and goat under different conditions | 2 |
| 23 | 5 | 06-05-21 | Formulation of rations for feeding of livestock during scarcity periods | 2 |
| 24 | 6 | 13-05-21 | Visit to Animal Farm and Feed Mill | 2 |

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| | | | Unit-4 (Applied Non Ruminant Nutrition): | |
| 25 | 1 | 20-05-21 | Calculation of requirement of nutrient for growth, reproduction, egg and meat production. | 2 |
| 26 | 2 | 27-05-21 | Calculation of requirement of nutrient for growth, reproduction, egg and meat production. | 2 |
| 27 | 3 | 03-06-21 | Formulation of ration for Broilers and Layers (with conventional and unconventional feed ingredients). | 2 |
| 28 | 4 | 03-06-21 | Formulation of ration for swine- Creep ration, grower and finisher ration (with conventional and unconventional feed ingredients). | 2 |
| 29 | 5 | 10-06-21 | Principles of compounding and mixing of feeds. | 2 |
| 30 | 6 | 17-06-21 | Visit to farms. | 2 |
| 31 | 7 | 17-06-21 | Formulation of balanced diets for horses. | 2 |
| 32 | 8 | 24-06-21 | Formulation of balanced diets for dogs. | 2 |
| 33 | 9 | 01-07-21 | Formulation of balanced diets for cats. | 2 |
| 34 | 10 | 08-07-21 | Feeds and feeding schedule of zoo animals, Birds diet charts. | 2 |

Signature of Head of Department