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FODDER PRODUCTION

and Principles of Animal Nutrition

The Veterinary Council of India has recently introduced the Minimum Standards of Veterinary Education Regulations, which will come into effect in 2024. These regulations aim to strengthen the quality of veterinary education and training in India. As part of these regulations, the animal nutrition course has been divided into four parts – ANN-111 in the first semester, ANN-121 in the second semester, ANN-211 in the third semester, and ANN-421 in the eighth semester. This division allows for a comprehensive understanding of the subject throughout the duration of the bachelor's program.

The course "Fodder Production and Principles of Animal Nutrition" has been specifically designed for first-year B.V.Sc&A.H students, with a credit hour of 2+1. It is a comprehensive course that covers all the necessary materials related to animal nutrition in a concise and organized format. This newly introduced first-semester course, ANN-111, aims to provide a strong foundation for students as they delve into this crucial aspect of veterinary science. The course textbook is carefully crafted to meet all learning needs and serves as an essential resource for aspiring veterinarians. Written in easy language and presented in a concise form, this book will greatly aid students in their understanding of key concepts related to animal nutrition.

Stephen Soren

(Contents)

- History of Animal Nutrition
- Nutritional Terms and their Definitions
- Importance of Nutrients in Animal Health and Production
- Composition of Animal Body and Plant
- Nutritional Aspect of Carbohydrate
- Nutritional Aspect of Protein
- Nutritional Aspect of Fat
- Role and Requirement of Water
- Importance of Minerals in Animal Health and Production
- Importance of Vitamins in Animal Health and Production
- Measures of Food Energy and their Applications
- Protein Evaluation of Feeds
- Methods for Improving the Nutritive Quality of Straw and Concentrate
- Introduction of Feed Technology- Feed Industry
- Anti-Nutritional Factors, Common Adulterants and Remedial Measures in Feeds and Fodders
- Feed Additives in the Rations of Livestock and their Uses
- Classification of Common Feed and Fodders
- Importance of Grassland and Fodder in Livestock
- Alternative Fodder Resources with Special Reference to Tree Leaves, Hydroponics, Duckweeds and Aazolla
- Agronomic Practices for Fodder Production Leguminous Fodders
- Preparation, Storage and Conservation of Fodders
- Safe Feed Storage Technique and Preventive Measures to Reduce Losses
- Soil and Water Conservation and Drainage of Water for Fodder Production
- Recycling of Animal Washings and Wastes in Fodder Production and Use of Recycle Waste

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