



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|---|--|----------------------|--|---|--------------------------------|---|------------|---|
| Course Title | | Nutrition of Fur Animals | | | | | | | |
| Course Code | | VHB646 | | Course Level | | Third Cycle (Doctorate Degree) | | | |
| ECTS Credit | 6 | Workload | 147 (<i>Hours</i>) | Theory | 1 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | <p>Explanation of anatomy and physiology of digestive system of fur animals (etc., rabbits, chinchilla, mink, fox).</p> <p>Introducing of feeds and environment of their feedlot. Explanation of nutritional requirements and feedlot types.</p> <p>Ability of get sufficient information about fur animals and could use this information in practice. Manage a proper relation with farmers.</p> <p>To be helpful to farmers about the management problems of fur animals.</p> <p>Could make a search about the issue. To have ability for produce own farm management system.</p> | | | | | | | |
| Course Content | | Characteristics of anatomy and physiology of digestive system of fur animals, nutrient requirements, introducing of feed stuffs which used in rations, prepare a ration for different rearing periods, methods for practical and logical nutrition. | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Discussion, Individual Study | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1 | 30 |
| Final Examination | 1 | 60 |
| Assignment | 4 | 10 |

Recommended or Required Reading

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| 1 | Çalışkaner, Ş. (1993) Kürk Hayvanlarının Beslenmesi, Ankara Üniversitesi Ziraat Fakültesi Yayınları: 1301, Ankara. |
| 2 | King, J.O.L. (1971) Rabbits, The UHAW Handbook on the Care and Management of Farm Animals, Churchill Livinstone, Edinburg and London. |
| 3 | Lebas, F., Coudert, P., Rouvier, R., Rochambeau, H. de (1986) The Rabbit Husbandry, Health and Production, FAO Animal Production and Health Series, No.21, Rome. |
| 4 | Kellerns, R.O., Church, D.C. (2002) Livestock Feeds and Feeding, Prentice Hall, New Jersey. |
| 5 | McDonald, P., Edwards, R.A., Greenhalgh, J.F.D., Morgan, C.A. (2002) Animal Nutrition, Longman Scientific & Technical, England. |
| 6 | Pond, W.G., Church, D.C., Pond, K.R., Schoknecht, P.A. (2004) Basic Animal Nutrition and Feeding, John Wiley & Sons, New York. |
| 7 | Ensminger, M.E., Oldfield, J.E., Heinemann, W.W. (1990). Feeds and Nutrition, Second Edition, The Ensminger Publishing Company, California, USA. |
| 8 | Umucalılar, H.D., Gülşen, N. (2005) Çiftlik Hayvanlarında Beslenme Hastalıkları, SÜ Basımevi, Konya. |
| 9 | Tisch, D. (2005) Animal Feeds, Feeding and Nutrition and Ration Evaluation, Thomson Learning. |
| 10 | Yavuz, H.M. (2001) Çiftlik Hayvanlarının Beslenmesinde Temel Prensipler, Hilal Yayınevi, İstanbul. |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical | Importance of rearing fur animal |
| 2 | Theoretical | Characteristics of digestive system of fur animals and differences with other animals in physiological (etc., caprophagy) and anatomic characteristics |
| 3 | Theoretical | Rabbit species and production (whole and hair) characteristics |
| 4 | Theoretical | Nutrient requirements of rabbits |
| 5 | Theoretical | Feed stuffs for rabbit nutrition |
| 6 | Theoretical | Nutrition of male and females in dry period, nutrition of females in gestation and lactation periods, nutrition of newborn babies and infants |
| 7 | Intermediate Exam | Midterm exam |
| 8 | Theoretical | Characteristics of digestive system of mink and differences with other animals in physiological (etc., caprophagy) and anatomic characteristics |
| 9 | Theoretical | Mink species and production (whole and hair) characteristics |



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|----|-------------|--|
| 10 | Theoretical | Nutrient requirements of mink |
| 11 | Theoretical | Feed stuffs for mink nutrition |
| 12 | Theoretical | Critic points for nutrition of other fur animals (etc., chinchilla, mink, fox) |
| 13 | Theoretical | Preparation of ration for nutrient requirement of fur animals. Feed forms for nutrition of fur animal and rate and amount of carbohydrates |
| 14 | Theoretical | Feed additives for nutrition of fur animals |
| 15 | Theoretical | Nutritional diseases of fur animals |
| 16 | Final Exam | Final exam |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|--|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 0 | 1 | 14 |
| Assignment | 5 | 0 | 5 | 25 |
| Reading | 14 | 0 | 6 | 84 |
| Midterm Examination | 1 | 8 | 2 | 10 |
| Final Examination | 1 | 12 | 2 | 14 |
| Total Workload (Hours) | | | | 147 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 6 |

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

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|---|--|
| 1 | To have enough knowledge about the anatomy and physiology of digestive system, nutrient requirements and feedlot types. |
| 2 | To know the principles of nutrition of fur animals and can manage the owners. |
| 3 | Can prepare proper rations for fur animals consider with quality of production and different production and health levels. To inform owners about practical / proper methods for feeding of these animals. |
| 4 | Importance of rearing fur animal |
| 5 | Nutritional diseases of fur animals |

Programme Outcomes (Animal Nutrition and Nutritional Diseases (Veterinary Medicine) Doctorate)

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|----|--|
| 1 | Knows information about importance of forage and concentrates in basic animal nutrition for protecting animal health in scientific and technological animal production. |
| 2 | Have ability to formulate economical and full-satisfactory rations with considering product quality and health. May inform animal producers about practical/appropriate feeding methods. |
| 3 | Can adapt to recent scientific and technological developments in animal nutrition easier and produce proper strategies against to problems on this field. |
| 4 | Knows the properties of feeds used in proper and economical rations formulated due to needs of animal species. |
| 5 | Can give information to animal producers about properties of common feedstuffs used in Turkey |
| 6 | Knows organoleptic, physical diagnostic and chemical analysis methods used in determining feed quality. |
| 7 | Have information about processing and the effects of processing on animal yield. |
| 8 | Can identify the term "feed hygiene" and have information about the usage availability of contaminated feedstuffs. |
| 9 | Can apply the informations related to feed additives in a proper way. |
| 10 | Understands the results and factors decreasing production. |
| 11 | Knows the nutrition related diseases and their solution recommendations which may be applied in feeding or formulating feeds for preventing nutritonal diseases. |
| 12 | Knows about the availability level of feedstuffs after consumed and can perform digestibility trials. |
| 13 | Knows the definition of stress, stress sources and effects on health and production level of animals. |
| 14 | Have sufficient information on classification, activation and fermentation of rumen microorganisms plus carbohydrate, lipid and protein digestibility. |
| 15 | Knows the factors effecting feed intake and negative factors in feedstuffs and prevention of them. |
| 16 | Comments on feeding behaviours and related yield parameters. |
| 17 | Have information on basic terms related to feed legislation, feeds used in animal nutrition and their legal regulations. |
| 18 | Have information about biotechnological research conducted on feeds and animal nutrition. |
| 19 | Knows the effects of nutrition on food quality, fertility, immunity and parasite enfestations. |

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

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|----|----|----|----|
| | L1 | L2 | L3 |
| P1 | 5 | 5 | 4 |



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|----|---|---|---|
| P2 | 5 | 5 | 4 |
| P3 | 4 | 4 | |
| P4 | 4 | 3 | |
| P5 | 4 | 4 | |
| P6 | 3 | | |

