



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|---|--|---------------------|---|---|--------------------------------|---|------------|---|
| Course Title | | Unfavorable Factors Originated Feedstuffs and Foodstuffs and Their Analysis | | | | | | | |
| Course Code | | VFT549 | | Couse Level | | Second Cycle (Master's Degree) | | | |
| ECTS Credit | 2 | Workload | 54 (<i>Hours</i>) | Theory | 1 | Practice | 2 | Laboratory | 0 |
| Objectives of the Course | | Due to drug use, contaminated by residual analysis and related substances from food, feed and teach identification. | | | | | | | |
| Course Content | | Disadvantages arising from the use of drug, food origin, negative factors, nutrients and pollutants in the environment, feed and feed raw materials and production techniques, resulting from the preparation of drawbacks, some of the diets and nutritional value of organic matter who, mycotoxins such as the negative results of examination and discussion of factors. | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Experiment, Demonstration, Discussion, Individual Study | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 60 |

Recommended or Required Reading

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| 1 | Veterinary Pharmacology and Therapeutics, 8th Edition, Jim E. Riviere (Editor), Mark G. Papich (Editor), 2009. |
| 2 | Modern Pharmacology, 6th Edition, Lippincott Williams and Wilkins, 2004 (Ed. C.R. Craig and R.E. Stitzel) |
| 3 | Basic and Clinical Pharmacology, 9th Edition, McGraw-Hill, New York, 2004 (Ed. B. Katzung) |
| 4 | Hayes, WA (2007) Principles and Methods of Toxicology, 5th Edition, Taylor and Francis, London. |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical | Source of food contamination |
| | Practice | The recognition of solid chemicals and properties which used in the lab |
| 2 | Theoretical | Practices to prevent food contamination |
| | Practice | The recognition of liquid and volatile chemicals and properties which used in the lab, |
| 3 | Theoretical | Disadvantages caused by drugs |
| | Practice | The use of basic laboratory equipment |
| 4 | Theoretical | Analysis of drug residues in food |
| | Practice | The use of basic laboratory equipment |
| 5 | Theoretical | Mycotoxins in foods remains |
| | Practice | Pharmacology and toxicology materials used in the analyzes |
| 6 | Theoretical | Mycotoxin analysis of residues |
| | Practice | Liquid-liquid phase extraction |
| 7 | Theoretical | Pesticide residues in food |
| | Practice | Solid-liquid phase extraction |
| 8 | Practice | analysis methods of toxicity |
| | Intermediate Exam | Midterm exam |
| 9 | Theoretical | Analysis of pesticide residues |
| | Practice | Analysis of the sample preparation stages intoxications |
| 10 | Theoretical | Analysis of organophosphorus insecticides |
| | Practice | study report of intoxications |
| 11 | Theoretical | Analysis of organochlorine insecticides |
| | Practice | sample study of intoxications |
| 12 | Theoretical | Analysis of carbamate group of insecticides |
| | Practice | intoxications purchasing the material in laboratory practices |
| 13 | Theoretical | Other contaminants |



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|----|-------------|---|
| 13 | Practice | intoxications purchasing the material in laboratory practices |
| 14 | Theoretical | Analysis of other contaminants |
| 15 | Theoretical | Discussion |
| 16 | Final Exam | Final |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|--|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 0.25 | 1 | 17.5 |
| Lecture - Practice | 15 | 0.25 | 2 | 33.75 |
| Midterm Examination | 1 | 0.5 | 1 | 1.5 |
| Final Examination | 1 | 0.5 | 1 | 1.5 |
| Total Workload (Hours) | | | | 54 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 2 |

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

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|---|---|
| 1 | Analysis of pesticides, and learns to have knowledge about. |
| 2 | To obtain information on the analysis of mycotoxins and learns. |
| 3 | Other negative factors have knowledge and learns. |
| 4 | To learn knowledge and propose suggestions on the area |
| 5 | To find out and use resources about the profession in the area. |

Programme Outcomes (Veterinary Pharmacology and Toxicology Master)

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|----|---|
| 1 | to be able to comprehend expert knowledge on field of pharmacology and toxicology in veterinary medicine |
| 2 | to be able to define expert knowledge on interdisciplinary interaction in pharmacology and toxicology |
| 3 | to be able to formulate ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education |
| 4 | to be able to integrate and interpret information in the area of pharmacology and toxicology with information in different fields and, if the need arises, provides scientific information and solutions to solve problems. |
| 5 | to be able to develop and use strategies in his/her field of expertise in Master's Program of Pharmacology and Toxicology |
| 6 | to be able to comprehend methods of obtained and submitted scientific knowledge |
| 7 | to be able to analyse current information related to his/her field of expertise (scientific information, procedures etc.) and use them when necessary. |
| 8 | to be able to apply technological tools in social relationships of vocational and professional environment. |
| 9 | to be able to review, evaluate and interpret any data (field observations, available scientific information etc.) towards a specific purpose. |
| 10 | to be able to comprehend expert knowledge on the function and basic pharmacological features of pharmacology and sub-branches of science, relationship between the drug and poison, pharmacokinetic, effects of the drugs, the dose-intensity and dose-effect relationship. |
| 11 | to be able to identify expert knowledge on the function and basic toxicological features of poison, classifications and types of poisoning, toxicokinetic, general principles of treatment of poisoning. |
| 12 | to be able to define and use laboratory equipment in a pharmacology and toxicology laboratory. |

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

| | L1 | L2 | L3 | L4 | L5 |
|-----|----|----|----|----|----|
| P1 | 4 | 4 | 5 | | |
| P3 | | | 5 | 5 | |
| P4 | | 4 | | 4 | |
| P5 | 5 | 5 | 5 | | |
| P6 | | | | | 5 |
| P7 | | | | | 4 |
| P9 | | | | 5 | 5 |
| P10 | | | 4 | | |

