



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Medicinal Plants and Used							
Course Code		VFT690		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	100 ( <i>Hours</i> )	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		Teaching of concepts and general information on medicinal plants, herbal substances to manufacture, prepare and store give information about the therapeutic values of herbal substances, safety and teach students about the quality of the theoretical and practical principles.							
Course Content		And the structure of the plant cell, plant materials, plant materials tasks plants, plant defense and communication parts of plants (drugs), pharmaceutical active ingredient groups (alkaloids, glycosides, phenolic substances, resins and oils), the preparation of drugs, medical drug forms, dosage, medicinal plants used in veterinary medicine, medicinal plants, advantages and weaknesses.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)		Prof. Ferda AKAR							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	30
Final Examination	1	70

### Recommended or Required Reading

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)

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction and structure of the plant cell, herbal substances
2	Theoretical	Herbal substances in plants, synthesis / storage and duties of the effects of herbal substances in living things
3	Theoretical	Alkaloid-containing plants
4	Theoretical	Plants containing phenolic glycoside and Terpenoids, resins, oils, and other herbal ingredients
5	Theoretical	Preparation of drugs, dosage, shelf life, the advantages of medicinal plants / weaknesses
6	Theoretical	Medicinal plants used in veterinary medicine
7	Theoretical	(Midterm exam) Medicinal plants used in veterinary medicine
8	Theoretical	Medicinal plants used in veterinary medicine
9	Theoretical	Medicinal plants used in veterinary medicine
10	Theoretical	Medicinal plants used in veterinary medicine
11	Theoretical	Medicinal plants used in veterinary medicine
12	Theoretical	Medicinal plants used in human medicine
13	Theoretical	Medicinal plants used in human medicine
14	Theoretical	discussion
15	Final Exam	Final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	1	56
Assignment	4	2	1	12
Midterm Examination	1	10	1	11



Final Examination	1	20	1	21
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	Important properties and nomenclature used for the purpose of medical plants will have a basic knowledge
2	Classification of herbal substances, certain substances in the group definition, the organism effects, beneficial and harmful aspects of the learned.
3	Medical substances in the manufacture, preparation, storage, trade, management values, safety, dosage, quality and quality assurance would have had on the sub-structure.
4	Medicinal plants used in veterinary and human medicine spread the pharmacological and toxicological effects, uses, dosage knows.
5	To learn knowledge and propose suggestions on the area

### Programme Outcomes (Pharmacology and Toxicology (Veterinary Medicine) Doctorate)

1	Gains expert knowledge on field of pharmacology and toxicology in veterinary medicine and, gains expert knowledge on interdisciplinary interaction in pharmacology and toxicology
2	To be equipped with the knowledge to develop original ideas about necessary issues in the field by using of both graduate and expertise levels knowledge, to be able to develop original definitions, products and diagnostic procedures, etc. via deepening and questioning these knowledge.
3	Develops and uses strategies in his/her field of expertise in PhD Program of Pharmacology and Toxicology
4	Reviews, evaluates and interprets any data (field observations, available scientific information etc.) towards a specific purpose.
5	Gains 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.
6	Gains expert knowledge on the function and basic toxicological features of poison, classifications and types of poisoning, toxicokinetic, general principles of treatment of poisoning.
7	Can offer training to technical staff who will work in pharmacology and toxicology laboratory
8	Reach to competence to prepare courses at the undergraduate level
9	Determines and uses laboratory equipment and consumables in a pharmacology and toxicology laboratory.
10	To be able to plan an interdisciplinary project and build team for the known or new defined problems and to manage and complete such a project when necessary.
11	To share his/her knowledge in the field with others by attending at field-related or other congresses, panels, symposiums, workshops, seminars, article discussions and problem solving sessions, etc., and to contribute to the solution in the team by establishing relations with the experts in different fields.
12	To contribute the scientific knowledge in the field via publications in national and international peer-reviewed scientific journals.
13	Takes roles in vocational organizations and institution.
14	Forms ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education.
15	To adopt lifelong learning as a principle and acknowledge that the information gained through research is the most valuable gain.
16	Knows and protects rights of ideas and industrial property (patent right)

### 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	5	4	5	
P2	5	5	4	5	
P3	4	5	5	5	5
P4	5	5	4	5	5
P8	5	5	5	5	
P11					4
P14	4	5	4	5	4
P15	5	5	4	5	

