

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Ecotoxicology								
Course Code ZBK505			Couse Level Second Cycle (Master's Degree)						
ECTS Credit 8	Workload 196 (Hours)		Theory	,	2	Practice	2	Laboratory	0
Objectives of the Course			ecotoxicology, toxicolog			ental sciences an	d use of		
Course Content  The source of environme indirect effect on organism with their habitus in environme.			from in	divid	ual to ecos				
Work Placement N/A									
Planned Learning Activities and Teaching Methods				ation	(Presentat	ion), Dem	nonstration, D	iscussion	
Name of Lecturer(s) Prof. Cafer TURGUT									

Assessment Methods and Criteria								
Method	Quantity	Percentage (%)						
Midterm Examination	1	40						
Final Examination	1	60						

## Recommended or Required Reading Satake, M., Mido, Y., Sethi, M. S. Iqbal, S. A. Yasuhisa, H., Taguchi, S. (2006): Environmental Toxicology. Discovery Publishing. ISBN 81-7141-350-1 Connell, D., Lam, P. (1999): Introduction to Ecotoxicology. Blackwell Science Oehlmann, J., Markert, B. (1997): Humantoxikologie. Wissenschaftliche Verlagsgesellchaft.

Week	<b>Weekly Detailed Cour</b>	ly Detailed Course Contents						
1	Theoretical	Introduction						
	Preparation Work	Basic ecotoxicological procedures in lab						
2	Theoretical	Interaction of ecotoxicology with environmental chemistr						
	Preparation Work	Basic calculation methods in ecotoxicology						
3	Theoretical	General principles of ecotoxicology						
	Preparation Work	Standard solvent preparation						
4	Theoretical	Effect of biological uptake factors to ecotoxicology						
	Preparation Work	Dose calculation						
5	Theoretical	Fate of environmental chemicals in organisms						
	Preparation Work	Dose response curves						
6	Theoretical	Ecotoxicological experimental methods and test systems						
	Evaluation of statistical results in lab							
7	Theoretical	Bioaccumulation						
	Preparation Work	Introduction to microtox system						
8	Intermediate Exam	Mid-Term Exam						
9	Theoretical	Molecular effect mechanisms and effect on cells						
	Preparation Work	Bioassay in microtox with a low toxicity pesticide						
10	Theoretical	Effect on individual and population						
	Preparation Work	Bioassay in microtox with a middle toxicity pesticide						
11	Theoretical	Effect on habitate and ecosystem						
	Preparation Work	Bioassay in microtox with a high toxicity pesticide						
12	Theoretical	Practical approach of ecotoxicology						
	Preparation Work	Evaluation of results						
13	Theoretical	Risk assessment 1						
	Preparation Work	EC50 calculations						
14	Theoretical	Risk assessment 2						
15	Theoretical	General review						



4.0	Final Fyans	Cin al Cyana	
16	Final Exam	Final Exam	

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Lecture - Practice	14	3	2	70
Midterm Examination	1	28	1	29
Final Examination	1	40	1	41
	196			
	8			
*25 hour workload is accepted as 1 ECTS				

Learn	ing Outcomes
1	to be able to recognize the effects of environmental chemicals in ecotoxicology
2	to be able to estimate the effets of environmental chemicals on organisms
3	to be able to recognize the moleculer effect mechanism
4	to be able to have the abilitiy of risk estimation
5	

Progr	ramme Outcomes (Plant Protection Master)
1	To develop knowledge and abilities that gained during undergraduate education
2	To gain ability to search and pursue current literature
3	To gain ability to plan and write projects that help solving problems in field of study.
4	To gain ability to conduct research, analyze data, evaluate research results scientifically and preapare reports and thesis writing.
5	Students will be able to learn and apply the laboratory test and analysis methods
6	To recognize occupational and ethical responsibility

Cont	ribution	of Lea	rning (	Outcon	nes to F	Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High
	L1	L2	L3	L4	L5	
P1	5	5	5	5	5	
P2	4	4	4	4	4	

P1	5	5	5	5	5
P2	4	4	4	4	4
P3	5	5	5	5	5
P4	2	3	5	4	3
P5	5	5	5	5	5
P6	4	4	4	4	4

