



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Safety in Biochemical Laboratories							
Course Code		VBY655		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	175 ( <i>Hours</i> )	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		The necessary information has been given to health and safety of laboratory staff of the laboratory, aims to teach what's on the measures to be taken							
Course Content		Laboratory safety, personal safety, emergency and first aid equipment, the rules need to pay attention to employees, emergency phone numbers, safe storage of chemicals							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Prof. Pınar Alkım ULUTAŞ							

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	Merck laboratuar kitabı
2	Klinik biyokimya (Yüregir, Güneş T.),
3	Clinical biochemistry for medical students(Laker, M. F.),
4	Klinik biyokimya analiz metodları (Adam, Bahattin)

Week	Weekly Detailed Course Contents	
1	Theoretical	Rules to be followed in the laboratory
2	Theoretical	Dangers arising from laboratory studies
3	Theoretical	Chemicals and their properties
4	Theoretical	Labeling of chemicals
5	Theoretical	Sotrage of chemicals
6	Theoretical	Risk and safety codes
7	Theoretical	Risk profile
8	Intermediate Exam	Midterm exam
9	Theoretical	Multiple risk information
10	Theoretical	Safety information
11	Theoretical	Multiple safety information
12	Theoretical	Safety symbols
13	Theoretical	Should not interfere with each other chemicals
14	Theoretical	Storage of waste
15	Theoretical	Peroxide chemicals into the form
16	Final Exam	Final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	3	1	60
Assignment	1	11	0	11
Project	1	20	0	20
Reading	5	8	0	40
Quiz	4	4	1	20
Midterm Examination	1	10	1	11



Final Examination	1	12	1	13
Total Workload (Hours)				175
[Total Workload (Hours) / 25*] = ECTS				7
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	To teach What chemicals are harmful to your health
2	To teach the terms of the storage of chemicals
3	To provide information about personal security
4	Needs to be done in emergency situations to teach
5	To have information about risk and security codes

### Programme Outcomes (Biochemistry (Veterinary Medicine) Doctorate)

1	Has a deep and broad knowledge about the field and the interdisciplinary area related with the field through the achievements gained in undergraduate and professional levels.
2	Has the knowledge to create original ideas, analyze them and develop definition/product/diagnosis methods by using the knowledge gained in undergraduate and/or professional experience, when needed.
3	Is knowledgeable about theories and practices in methodological and scientific research methods to run an independent research.
4	Excels in the laboratory, clinical and similar fields by using the theoretical and practical information gained in former education, and has the ability to create solutions in related fields.
5	Designs and develops scientific methodology for the advanced level/newly defined/emerged problems about the field.
6	Excels in the known scientific methods in the field for the advanced level/ newly defined/emerged problems.
7	Designs unique researches and implements independently.
8	Analyzes, synthesizes and evaluates the new ideas in related fields by using critical thinking.
9	Plans, creates teams and carries out the interdisciplinary research projects in order to create solutions to the known/newly defined problems.
10	Joins to congresses, panels, symposiums, workshops, seminars, article discussions and problem solving sessions in different disciplines, and exchanges information with the other professionals to contribute to the solutions.
11	Broadens the borders of scientific information by publishing scientific articles in national and/or international peer-reviewed journals.
12	Creates new ideas and methods to contribute to the technological, social and cultural progress, or to help the development of information society by using the theoretical, practical, independent research, abilities responsibly.
13	Designs and implements social projects with the awareness of creating an information society.
14	Compiles and interprets any type of data (field observation, scientific knowledge etc.) in accordance with the aims.
15	Develops and uses strategies about related topics with the field.
16	Implements and defends institutional and practical information and abilities in accordance with the needs of the country and the world, and changes when necessary.
17	Follows up and uses all the updates about the field (scientific information, legislations etc.), and has the qualification to change them.
18	Adopts lifelong learning as a principle and acknowledges that the information gained through research is the most valuable gain.

### 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	5				5
P2		5	5	5	5
P4		5		5	5
P12	5	5	5	5	5

