

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Techniques of	f General Labo	oratory					
Course Code		VBY645		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	5	Workload	125 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To teach to pr	ovide of secu	rity and layo	ut of the b	iochemistry lab			
Course Content		Working princ equipment, to	iples of labora provide the or	tory equipme der of labora	ents that us itory, the ru	sing in biochem ules should be	istry labora held labora	tory, care and clea tory	an of this
Work Placement N/A									
Planned Learning Activities and Teaching Methods		Explanation	(Presenta	tion), Discussio	n				
Name of Lecturer(s)		Prof. Ayşegül	BİLDİK						

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Lippincott's Illustrated Reviews Biyokimya Seri Editörleri Richard A HARVEY, Pamela C. CHAMPE Biyokimya Çeviri Editörü Doç.Dr. Engin ULUKAYA, Nobel Tıp Kitabevleri 2007
2	Lehninger Biyokimyanın İlkeleri. David L. Nelson Michael M. COX. Çeviri Editörü Prof.Dr. Nedret KILIÇ, Palme Yayıncılık
3	Harper Biyokimya Robert K. Murray, Daryl K. Granner, Peter A. Mayes, Victor W. Rodwell. Çeviri Editörleri: Nurten DİKMEN, Tuncay ÖZGÜNEN. Nobel Tıp Kitabevleri

Week	Weekly Detailed Cour	leekly Detailed Course Contents				
1	Theoretical	Biochemistry laboratory's rules				
2	Theoretical	Security in biochemistry laboratory				
3	Theoretical	Glaswares used in biochemistry laboratory				
4	Theoretical	Qualitative and quantitative analysis				
5	Theoretical	Chemicals used in biochemistry laboratory				
6	Theoretical	Plastic materials used in biochemistry laboratory				
7	Theoretical	Volumetric measurements				
8	Intermediate Exam	Midterm exam				
9	Theoretical	Distilled water				
10	Theoretical	Principles of laboratory instruments				
11	Theoretical	Maintenance of laboratory instruments				
12	Intermediate Exam	Quizze				
13	Theoretical	Sending samples to laboratory				
14	Theoretical	Cleaning of laboratory instruments				
15	Theoretical	Discussion				
16	Final Exam	Final exam				

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	15	3	2	75	
Reading	1	17.5	0	17.5	
Quiz	1	5	0.5	5.5	
Midterm Examination	1	10	1	11	



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Final Examination	1		15	1	16
Total Workload (Hours)					125
[Total Workload (Hours) / 25*] = ECTS					5
*25 hour workload is accepted as 1 ECTS					

Learr	ning Outcomes	
1	to teach to layout of laboratory	
2	routine to apply what they learn	
3	Recognize the materials used in biochemistry laboratory	
4	To have knowledge about safety in laboratory	
5	To have knowledge about the maintenance of laboratory ins	struments

Programme Outcomes (Biochemistry (Veterinary Medicine) Doctorate)

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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

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	L1	L2	L4	L5	
P1	3		3	3	
P2	4		4	4	
P3	4				
P4		4	4	4	
P8	3				
P12	3	4	4	4	
P15	4				
P17	4		4	4	
P18		3	3	3	

