



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Acute Phase Proteins							
Course Code		VBY537		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		Syntesis of acute phase proteins, determination of acute phase proteins,clinical use							
Course Content		Acute phase proteins							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Experiment, Discussion, Individual Study					
Name of Lecturer(s)		Prof. Pınar Alkim ULUTAŞ							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Final Examination	1	100

### Recommended or Required Reading

1	.Karagül H., Altıntaş A., Fidancı U.R., Sel T.(2000) Klinik Biyokimya. Medisan Yayınevi ANKARA
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Week	Weekly Detailed Course Contents	
1	Theoretical	Plasma proteins and functions
	Practice	Presentation of laboratory instruments
2	Theoretical	Acute phase reaction and acute phase proteins
	Practice	Preparations of solution techniques
3	Theoretical	Cytokines
	Practice	Methods for preparing buffer solution
4	Theoretical	Pozitive acute phase proteins
	Practice	The principle of the ELISA
5	Theoretical	Haptoglobin
	Practice	Spectrofotometric Haptoglobin analysis
6	Theoretical	Ceruloplasmin
	Practice	Spectrofotometric ceruloplasmin analysis
7	Practice	SAA analysis
8	Theoretical	Fibrinogen
	Practice	Fibrinogen analysis by Millar and Shalm methods
9	Intermediate Exam	Midterm exam
10	Theoretical	Albumin ve transferin
	Practice	Albumin analysis
11	Theoretical	Clinical significance of acute phase proteins
	Practice	Transferrin analysis
12	Theoretical	AFP profiles in different species
	Practice	CRP analysis
13	Theoretical	Current rewiev of the literature
	Practice	Presentation
14	Theoretical	Current rewiev of the literature
	Practice	Presentation
15	Theoretical	Discussion
	Practice	General repeat
16	Final Exam	Final exam



**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	1	1	30
Lecture - Practice	15	0.5	2	37.5
Assignment	1	1	0.5	1.5
Midterm Examination	1	2	1	3
Final Examination	1	2	1	3
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	To be able to explain acute phase proteins
2	To be able to comprehend the clinical significance of acute phase proteins
3	To be able to comprehend methods of acute phase proteins analysis
4	Acute Phase Proteins, Purpose of Uses and Clinical Importance in Animals
5	To be able to apply the knowledge which has been gained.

**Programme Outcomes (Biochemistry (Veterinary Medicine) Master)**

1	To be able to tell and describe the interdisciplinary interaction with the associated fields.
2	To be able to express original ideas using his/her higher education knowledge theoretically and practically information and to be able to create original definitions, products, methods improving and questioning these ideas.
3	To be able to manage a free research according to scientific and methodological methods and be able to hypothetically and practically about his/her own field.
4	To be able to compose and interpret the information from different disciplines, and create solution suggestions and scientific information which can contribute to the solution process.
5	To be able to involve in professional organizations and institutions related with the educational background.
6	To be able to take responsibility for individual and group work, and do the assignments in line with the skills.
7	To be able to communicate with the professionals out of the field when it is necessary, and contribute to the solution as a team member.
8	To be able to tell about the production and publishing methods of scientific information.
9	To be able to design the source and the type of information that is needed related with the field and chooses the activities that s/he wants to participate, by using his/her critical thinking abilities that is developed in the education.
10	To be able to use technological devices both for professional and social purposes.
11	To be able to compose and interpret any kind of data related with the field (field observations, produced scientific information etc.) and analyzes and interprets the results according to the aims of the research.
12	To be able to define the environmental health rules and apply them for prevention.
13	To be able to apply the knowledge gained in professional level with the awareness of the needs of the region and the country, and develop a defense capability.
14	To be able to conceptualize the phenomena and the events related with the field; study scientific methods and techniques, interpret results; analyze and hypothesize methods in accordance with the results and design solution or treatment alternatives addressing the problems.
15	To be able to interpret the updates of information in the field by using all kinds of sources (scientific information, legislations etc.), and use when needed.

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

	L1	L2	L3	L5
P1	5			
P2	5	5	5	5
P4		5	5	5
P9		5	5	5
P10				5
P11			5	

