AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Glycoproteins and Proteoglycans								
Course Code	VBY532		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	4	Workload	100 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Glycoproteins, heparin, hyaluronik acid, kondroidin sulfates, heparan sulfate, dermatan sulfate								
Course Content	Glycoproteins, heparin, hyaluronik acid, kondroidin sulfates, heparan sulfate, dermatan sulfate								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation)								
Name of Lecturer(s)	Prof. Funda KIRAL, Prof. Serap ÜNÜBOL AYPAK								

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Biyokimya Güneş Tıp Kitapevi
2	Biyokimya Leninger

Week	Weekly Detailed Course Contents	
1	Theoretical	Glycosaminoglycans
2	Theoretical	Proteoglycans
3	Theoretical	Glycoproteins
4	Theoretical	Classification of glycoproteins
5	Theoretical	Glycolipids
6	Theoretical	The lectins
7	Intermediate Exam	Midterm exam
8	Theoretical	Heparan
9	Theoretical	Hyaluronic acid
10	Theoretical	Chondroitin sulfate
11	Theoretical	Heparan sulfate
12	Intermediate Exam	Quizze
13	Theoretical	Antigenic properties of glycoproteins
14	Theoretical	Diseases and glycoproteins
15	Theoretical	Discussion
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	2	2	60
Assignment	1	10	0	10
Midterm Examination	1	10	1	11
Final Examination	1	18	1	19
			Total Workload (Hours)	100
			[Total Workload (Hours) / 25*] = **ECTS**	4

**25 hour workload is accepted as 1 ECTS*

Learning Outcomes

1	To be able to explain the structure of glycoprotein
2	To be able to comprehend proteoglycan

3	To be able to explain glycoprotein
4	To have knowledge about the role of glycoproteins in health and disease
5	To be able to identify proteoglycans involved in extracellular matrix structure

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 useing his/her higher education knowledge theoretically and practically information and to be able to creat original defination,products,methods improving and questioning these ideas.
3	To be able to manage a free research according to scientifical and metodological 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 involves 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
P2	3	4	4
P3	3	4	4
P4	4	4	4
P8		3	3
P11		3	3
P14	3		
P15	4	3	3