



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Fields of Specialization II							
Course Code		UZM702		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	200 (Hours)	Theory	8	Practice	0	Laboratory	0
Objectives of the Course		After the student's thesis topic is determined, the latest scientific developments related to the topic of the thesis, theoretical information including publications, studies conducted to finalize the article review and thesis management and processing of courses that can help these topics							
Course Content		Scientific article scanning, selection of resources, organizing ideas, making article critics, presentation techniques, critical thinking and writing							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Project Based Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Assoc. Prof. Ahmet BİLDİREN, Assoc. Prof. Ahu YAZICI AYYILDIZ, Assoc. Prof. Algin OKURSOY, Assoc. Prof. Ali Emre DİNGİN, Assoc. Prof. Ali İhsan YAPICI, Assoc. Prof. Atilla DÖNÜK, Assoc. Prof. Aydın ERÖN, Assoc. Prof. Ayfer METİN TELLİOĞLU, Assoc. Prof. Aynur UÇKAÇ, Assoc. Prof. Aysun GÜR, Assoc. Prof. Ayşe ÖZTÜRK SAMUR, Assoc. Prof. Aytül UÇAK KOÇ, Assoc. Prof. Aziz BOSTAN, Assoc. Prof. Belgin YILDIRIM, Assoc. Prof. Berna AKYÜZ SİZGEN, Assoc. Prof. Beyza ERER, Assoc. Prof. Burak FEYZİOĞLU, Assoc. Prof. Bülent ÇELİK, Assoc. Prof. Ceren DİNLER AY, Assoc. Prof. Ceren SAYGI GERÇEKER, Assoc. Prof. Coşkun DENİZ, Assoc. Prof. Çağatay DERECELİ, Assoc. Prof. Derya GÜLÇİN, Assoc. Prof. Didem TEZSÜRÜCÜ COŞANSU, Assoc. Prof. Dilan TÜYSÜZ, Assoc. Prof. Duriye Esra ANGIN, Assoc. Prof. Ebru ERSOY TONYALOĞLU, Assoc. Prof. Ebru YILMAZ, Assoc. Prof. Elvan HAYAT, Assoc. Prof. Emrah HİĞDE, Assoc. Prof. Emre ERDAN, Assoc. Prof. Emre SEVİNDİK, Assoc. Prof. Engin ÇAKIR, Assoc. Prof. Erdal İSBİR, Assoc. Prof. Eren Alper YILMAZ, Assoc. Prof. Eren Ekin ERCAN, Assoc. Prof. Erkan GÜMÜŞ, Assoc. Prof. Erman ORYAŞIN, Assoc. Prof. Ersel YILMAZ, Assoc. Prof. Esin ERGİN, Assoc. Prof. Esin ÖZER, Assoc. Prof. Esin POYRAZOĞLU, Assoc. Prof. Evin ERDEN TOPOĞLU, Assoc. Prof. Eyüp YILMAZ, Assoc. Prof. Fatih ERSAN, Assoc. Prof. Fatih Mehmet YILMAZ, Assoc. Prof. Ferda ZAMBAK, Assoc. Prof. Funda ODUNCUOĞLU, Assoc. Prof. Gökhan ÇINAR, Assoc. Prof. Gökhan Şefik ERKURT, Assoc. Prof. Gözde Başak ÖZTÜRK ÖZERAY, Assoc. Prof. Gözde İNAL, Assoc. Prof. Gülnur KARAKAŞ TANDOĞAN, Assoc. Prof. Gülşah SEZEN AKAR, Assoc. Prof. Gülşen GÜVEN, Assoc. Prof. Hakan ATAY, Assoc. Prof. Hasan ERDOĞAN, Assoc. Prof. Hasan GÜLER, Assoc. Prof. Hasan GÜLTEKİN, Assoc. Prof. Hasan ULUKAN, Assoc. Prof. Hatice AKDAĞ, Assoc. Prof. Hatice GÜNEŞ, Assoc. Prof. Hatice ÖNER, Assoc. Prof. Kevser TOZDUMAN YARALI, Assoc. Prof. Keziban AMANAK, Assoc. Prof. Kıymet YAVUZASLAN, Assoc. Prof. Korhan GÜNEL, Assoc. 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Ayşe YILMAZ, Lec. Ayten CAN, Lec. Başak DOĞAN, Lec. Baturay ERDAL, Lec. Berivan BİNAY, Lec. Berker BULUT, Lec. Berna ARSLAN, Lec. Betül ALTAY ÖZTÜRK, Lec. Birsan KIRIM, Lec. Burcu ALTUN BİRGÜN, Lec. Burcu HİÇYILMAZ, Lec. Büşra KİBAR KURT, Lec. Cihan DOĞAN, Lec. Çağdaş GÖRÜCÜ, Lec. Demet AKDENİZ, Lec. Deniz ÖZEN ÜNAL, Lec. Derya GÜL ÖZTÜRK, Lec. Devrim BEYAZ, Lec. Dilek AÇIKGÖZ KAYA, Lec. Dilek Elvan ÇOKIŞLER, Lec. Durcan Özgün SARIOĞLU, Lec. Duygu KAYA BİLECENOĞLU, Lec. Ebru Özlem YILMAZ, Lec. Elvan KESER, Lec. Emin YİĞİT, Lec. Emine İNCİ, Lec. Erdal ÖZYURT, Lec. Erhan COŞKUN, Lec. Erkmn Tuğrul EPİKMEN, Lec. Esin SAYIN, Lec. Esmâ DURUKAL, Lec. Esra ÖRENLİLİ YAYLAGÜL, Lec. Eyyüp Hakan UÇAR, Lec. Fatih SOYGAZİ, Lec. Ferhat KİREMİT, Lec. Ferhat ŞİRİNYILDIZ, Lec. Feride ÖNCAN SÜMER, Lec. Filiz ERBAŞ, Lec. Fulya TORUN, Lec. Galip GENÇ, Lec. Gamze Sevri EKREN AŞICI, Lec. Gönül TEZCAN, Lec. Gülizar Seda YILMAZ, Lec. Gülsüm KARAKAYA, Lec. Gülten Emek TUNA, Lec. Güneş Açelya SİPAHİ, Lec. Günver GÜNEŞ, Lec. Hafize Gül KOPARANOĞLU ARTUÇ, Lec. Halil MUTİOĞLU, Lec. Hanife Can ŞEN, Lec. Harun KAYA, Lec. Hatice ARMUTCUOĞLU TEKİN, Lec. Hatice YILDIZ, Lec. Hikmet MENGÜASLAN, Lec. Hulusi AKÇAY, Lec.							



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Prerequisites & Co-requisites

Prerequisite UZM701

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Quiz	1	20



Attending Lectures	15	20
Report	1	60

Recommended or Required Reading

1	Thesis Writing Guide
2	Lecture notes on the selected thesis topic
3	All national and international books and publications related to the thesis topic
4	E-books and internet resources

Week	Weekly Detailed Course Contents	
1	Theoretical	Subject expression, problem solving for creating scientific foundations of the study of expertise
2	Theoretical	Subject expression, problem solving for creating scientific foundations of the study of expertise
3	Theoretical	Subject expression, problem solving for creating scientific foundations of the study of expertise
4	Theoretical	Subject expression, problem solving for creating scientific foundations of the study of expertise
5	Theoretical	Data collection methods related to the field of expertise
6	Theoretical	Classification and evaluation of data related to the field of expertise
7	Theoretical	Statistical evaluation methodology
8	Theoretical	Presentation of a scientific paper related to the field of specialization
9	Theoretical	Presentation of a scientific paper related to the field of specialization
10	Theoretical	Presentation of a scientific paper related to the field of specialization
11	Theoretical	Scientific sample dissertation study suitable for specialization study
12	Theoretical	Scientific sample dissertation study suitable for specialization study
13	Theoretical	Examination of the thesis prepared for the specialization study
14	Theoretical	Examination of the thesis prepared for the specialization study
15	Theoretical	Examination of the thesis prepared for the specialization study

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	1	2	45
Assignment	4	3	2	20
Seminar	3	3	2	15
Project	2	5	5	20
Individual Work	10	5	5	100
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Learns the experience of the faculty members who have knowledge, experience and experience in the scientific field.
2	Has knowledge about scientific ethics and working discipline.
3	Gains the ability to evaluate and evaluate the current literature.
4	Students will be able to understand the theoretical knowledge about the thesis and follow the latest scientific developments.
5	Be able to make an article review about the thesis subject and turn the thesis topic into a project.
6	Students can write their thesis according to the rules of writing.

Programme Outcomes (Biophysics Master)

1	To be able to acquire an up-to-date theoretical and practical background on biophysical and electrophysiological research
2	To be able to acquire a background needed for basic biophysical research and having the ability to use the theoretical and practical knowledge in the field
3	To be able to attain the ability to get access to the up-to-date knowledge, interpret and improve the information in the field of biophysics
4	To be able to attain the ability to perform experimental methods in the field, produce new approaches and ability to produce analytical solutions to the problems faced during application of new methods
5	To be able to reach a level to follow research in the field, to possess written and spoken communication skills and be able to join discussions
6	To be able to acquire knowledge and skill to apply scientific principles of ethics.



7	To be able to gain knowledge and skill about the basic issues of electric and magnetic fields, the interaction of light with matter, spectroscopy, radiation biophysics such as radiation, electromagnetic spectrum, ionizing radiation and radioactivity; learn about the physical properties of these issues and to be able to evaluate biological effects of radiation on tissues
8	To be able to construct knowledge and skill about the molecular structure and function in living systems, bioenergetic concepts, information theory and the processing of information in living systems
9	To be able to master about the basic principles of bioelectrical incidents that occur in cells, such as transport across membranes, electrical properties of membranes, resting membrane potential, and to be able to discuss the bioelectrical behaviour of excitable membranes
10	To be able to define the kinds, sources and biophysical properties of bioelectrical signals, to store knowledge in areas of biophysical concepts and characteristics such as nerve action potential and compound nerve action potential and to record to record these potential variants, analyze and evaluate the results
11	To be able to define basic biophysical principles of the visualization techniques used in medical field and the techniques used to determine biological signals, such as electromyography (EMG), electroencephalography (EEG), and electrocardiography (ECG), and attain the ability to apply these techniques
12	To be able to attain knowledge on molecular biophysics and its basic principles
13	To be able to attain the ability to plan and conduct projects in the field of biophysics, and attain the ability to write and publish scientific results
14	To be able to acknowledge the national and international laws and regulations about the concepts related to biophysics
15	To be able to attain the skills to organize activities together with non-governmental organizations or to conduct collaborative projects with other disciplines
16	To be able to acquire the ability of critical thinking, making judgements and solving problems in the field of biophysics
17	To be able to use statistical, computational and communicational tools, which can be applied in the field of biophysics
18	To be able to use basic knowledge and skills of the field; be able to evaluate data, identify problems and propose solutions

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

	L1	L2	L3	L4	L5	L6
P1	5	5	5	5	5	4
P2	5	5	5	5	5	4
P3	5	5	5	5	5	4
P4	5	5	5	5	5	4
P5	5	5	5	5	5	5
P6	5	5	5	5	5	5
P7	4	3	5	5	5	3
P8	4	3	5	5	5	3
P9	4	3	5	5	5	3
P10	4	3	5	5	5	3
P11	4	3	5	5	5	3
P12	4	3	5	5	5	3
P13	5	5	5	5	5	5
P14	5	5	5	5	5	3
P15	5	5	5	5	5	3
P16	5	5	5	5	5	5
P17	5	5	5	5	5	5
P18	5	5	5	5	5	5

