



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Genetic Illness and Genetic Consultant							
Course Code		EBE526		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	106 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Students learn concepts of genetics, genetic diseases, prevention, diagnosis and treatment and genetic counseling							
Course Content		Basic concepts of genetics, cell division, chromosomal disorders, single gene disorders, pedigree analysis, the effect of genetic disorders and genetic counseling of consanguineous marriages, gender development and anomalies, prenatal genetic diagnosis and preimplanter, multifactorial diseases, blood groups genetics, midwives' responsibilities for genetic counseling stages							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Prof. Sündüz Özlem ALTINKAYA							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Tıbbi Genetik, Prof.Dr. Nurettin Başaran
2	Thompson & Thompson Genetics in Medicine

Week	Weekly Detailed Course Contents	
1	Theoretical	Genetic science, classification of genetic diseases
	Preparation Work	Introduction, reading, research of literature
2	Theoretical	Cell division, gametogenesis, chromosome numbers and structures
	Preparation Work	Reading, research of literature, review
3	Theoretical	Cell division, gametogenesis, chromosome numbers and structures
	Preparation Work	Reading, research of literature, review
4	Theoretical	chromosomal disorders Dysmorphism, teratogens and mutagens
	Preparation Work	Reading, research of literature, review
5	Theoretical	DNA structure and mutations
	Preparation Work	Reading, research of literature, review
6	Theoretical	Single gene disorders
	Preparation Work	Reading, research of literature, review
7	Theoretical	Pedigree analysis Impact of consanguineous marriages on genetic diseases and genetic counseling
	Preparation Work	Reading, research of literature, review
8	Intermediate Exam	Midterm exam
9	Theoretical	Gender development and anomalies
	Preparation Work	Reading, research of literature, review
10	Theoretical	Prenatal and preimplanter genetic diagnosis
	Preparation Work	Reading, research of literature, review
11	Theoretical	multifactorial diseases
	Preparation Work	Reading, research of literature, review
12	Theoretical	Genetics of blood groups. ABO system, the Rh blood group system and other blood groups
	Preparation Work	Reading, research of literature, review
13	Theoretical	the way of effect of Genetic disorders on individuals, families and society
	Preparation Work	Reading, research of literature, review
14	Theoretical	midwives' responsibilities for Stages of genetic counseling



14	Preparation Work	Reading, research of literature, review
15	Theoretical	midwives' responsibilities for Stages of genetic counseling
	Preparation Work	Reading, research of literature, review
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	2	84
Midterm Examination	1	8	2	10
Final Examination	1	10	2	12
Total Workload (Hours)				106
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to Identify the basic genetic concepts
2	To be able to Identify common genetic diseases, to be able explain and discuss these diseases prevention, diagnosis, and treatment methods
3	to be able to comprehend the methods of treatment and care provided for individuals and families requiring Genetic counseling
4	to be able to gain responsibilities of midwives for Stages of genetic counseling
5	Identify patients and couples in the risk group for genetic diseases and provide appropriate counseling

Programme Outcomes (Midwifery Master)

1	based on midwifery degree level qualifications, to be able to comprehend the theoretical, practical and to-date information at the level of expertise in midwifery, and develop this information.
2	to be able to develop the philosophy of midwifery with information about concepts, theories and principles of midwifery.
3	to be able to define the issues of profession of midwifery, and develop the appropriate strategies of national and international professional in cooperation with legislative bodies.
4	to be able to develop strategies, policies and implementation plans in midwifery, and evaluate the results obtained within the framework of quality processes.
5	to be able to offer midwifery service of the women, family and community health promoting, disease preventive, curative and supportive.
6	to be able to describe and discuss the basic concepts of women, family and community health, the national and international indicators.
7	to be able to comprehend characteristics of all life stages of women, the potential and existing bio-psycho-social problems, and state care requirements, and give evidence-based midwifery care with problem-solving approach.
8	to be able to comprehend statistics, effective uses relevant software, and to be able to select, calculate and interpret statistical methods while doing research
9	to be able to follow evidence-based practices related to professional practice and conduct research to create evidence of their field.
10	to be able to write the report that she has done / participated the research, and publish national / international a refereed journal publications / offer in the scientific meetings.
11	to be able to monitor scientific and technological developments in the area of midwifery, scan literature, critically evaluate and use new information obtained in accordance with the principles of lifelong learning.
12	to be able to make oral and written communication at least one European language portfolio B2 using in a general level.
13	to be able to comprehend the importance of ethical principles and ethics committees for individual and society, and treat according to ethical principles.

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

	L1	L2	L3	L4
P1	5	3	3	3
P2	1			
P4			3	3
P5		5	5	5
P6		3	2	3
P7	4	4	4	
P9		3	4	2



P10		3	3	
P13		3	3	3

