



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Genetic Disease and Genetic Counseling							
Course Code		HDK531		Coure Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The purpose of this course is to teach students basic concepts about genetics, genetic diseases, prevention of genetic diseases, genetic counseling and information about diagnosis and treatment methods.							
Course Content		In this lesson genetic material, nucleic acid, DNA, RNA, gene, transcription, chromosome, mitosis and meioses, gametogenesis, Mendel's laws, genotype, phenotype, gene effects and interactions, mutation, sex-related heredity are discussed.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	2	40
Final Examination	1	60

Recommended or Required Reading

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

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to the science of genetics, classification of genetic diseases, genetic disorders, the individual, family and community impacts
2	Theoretical	Cell division, gamatogenez, chromosomes, the number and structure
3	Theoretical	Chromosomal disorders
4	Theoretical	Dysmorphism, teratogens and mutagens
5	Theoretical	DNA, structure and mutations
6	Theoretical	Single-gene disorders
7	Theoretical	Pedigree analysis
8	Theoretical	The effect of genetic diseases, consanguinity, genetic counseling
9	Intermediate Exam	Midterm exam
10	Theoretical	Gender development and anomalies
11	Theoretical	Prenatal and preimplanter, genetic diagnosis
12	Theoretical	Multifactorial diseases
13	Theoretical	Genetics of blood groups, ABO system, Rh system and other blood groups
14	Theoretical	Genetic counseling, genetic counseling roles and responsibilities of nurses
15	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Midterm Examination	2	10	2	24
Final Examination	1	18	2	20
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 identify the basic genetic concepts
2	To be able to identify common genetic diseases, the disease prevention, diagnosis and treatment methods to explain and discuss
3	To be able to explain the methods of treatment and care offered to individuals and families requiring genetic counseling
4	To be able to explain the roles of nurses in genetic counseling and to take responsibility.
5	To be able to acquire skills in genetic counseling

Programme Outcomes (*Obstetrics and Gynecology Nursing Master*)

1	Basing on the nursing degree level qualifications, to be able to comprehend the latest theoretical and applied information at the level of expertise in the field of Gynecology and Obstetrics Nursing, and can improve, deepen and use them.
2	to be able to bring solutions to issues requiring expertise related to Birth, Women's Health and Diseases Nursing, solve problems, evaluate gathered results and if necessary apply them.
3	to be able to combine information in her/his field with those from different fields to create new knowledge, interpret and synthesize and bring solutions.
4	to be able to evaluate information related to her/his field critically and direct the learning.
5	to be able to discuss and share field-information, current developments and her/his own actual works with groups in the same field or in other fields in a systematic manner.
6	to be able to follow evidence-based practices and carry out evidence-creating research in her/his field related to professional practices.
7	to be able to execute field-related works independently and/or within a team.
8	to be able to comprehend statistics, use related software effectively, have skills for choosing the right methods, calculation and interpretation while doing research.
9	to be able to prepare report of the research she/he did or participated and publish in a valued national/international journal and present at meetings.
10	to be able to develop strategy and politics in issues related to Birth, Women Health and Disease Nursing and interpret practice plans and evaluate gathered results in a scientific and ethical framework
11	to be able to establish verbal and written communication by using a foreign language at least at the European language portfolio B2 general level.
12	to be able to comprehend the importance of ethical principles and ethical rules for the individual and society and behave ethically.

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

	L1	L2	L3	L4	L5
P1	5	5	5	5	
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	4	4	4	4	4

