AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Human Genetics						
Course Code	ÇS311		Couse Level	Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	77 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To inform about gene and genetic science, explanation of the genes' effect on the livings, to inform about the characteristics that are arised depending on genes, and problems /disease that seen due to inherited in human.						
Course Content	Definitions of the basic terms related to genetics (chromosomes, DNA, genes, codon and genome etc). Structure and functions of the genes, and the importance of gene on the structure of living and the realization of the function related to of the vitality. Genes that people have and effect of these genes on the properties owned by the people. Anomalies that resulted from mutation occurring in the genes.						
Work Placement	N/A						
Planned Learning Activities and Teaching Methods		Explanation (Presentation), Discussion, Case Study, Individual Study					
Name of Lecturer(s)	Lec. Sevil ÖZCAN						

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Genetic (2003) William S. Klug & Michael R. Cummings (Trans. Prof. Cihan Öner), Palme Publ.
2	Basic Rules of The Life V.1 / Part.1 (2004) Ali Demirsoy, Meteksan
3	General Biyology (2000) William T. Keeton, James L. Gould & Carol Grant Gould (Trans. Prof. Ali Demirsoy, Prof. İsmail Türkan

Week	Weekly Detailed Course Contents	
1	Theoretical	History of the genetis science.
2	Theoretical	Genetic researches and different approaches on this subject. Progress seen in some areas due to the research conducted in genetics.
3	Theoretical	Definition of the basic concepts such as chromosome, gene, genome, genotipe, fenotipe to be hereditary material.
4	Theoretical	Cell cycle and cell divisions.
5	Theoretical	Mendelian genetics.
6	Theoretical	What is a family tree, how to draw it?
7	Theoretical	Gene linkage, crossover and mapping.
8	Theoretical	Midterm
9	Theoretical	Extranuclear inheritance.
10	Theoretical	Determination of sex and sex chromosomes.
11	Theoretical	Forming the map of human chromosomes.
12	Theoretical	Chromosome mutations: changes in chromosome number and order.
13	Theoretical	AB0 blood groups, Bombay phenotype, Rh antigens, sickle cell anemia and human hemoglobin.
14	Theoretical	Some hereditary features (in autosomal chromosomes) in human.
15	Theoretical	Human genome project.

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Individual Work	9	0	3	27
Midterm Examination	1	2	1	3

Final Examination	1	4	1	5
		Total Workload (Hours)		77
		[Total Workload (Hours) / 25*] = **ECTS**		3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Know the genetic concepts such as gene, chromosome and genome.
2	Knows that mutations can occur in living organisms depending on different conditions, and can occur the structural or functional changes in living according to this change.
3	Knows that the human genetic structure and the chromosomal anomalies seen in human.
4	Knows Mendelian genetics and crosses.
5	Knows the deviations from Mendelian genetics and types.

Programme Outcomes *(Anesthesia)*

1	To be able to recall basic knowledge about human anatomy
2	To be able to recall the knowledge about Ataturk's principles and the history of Turkish Revolution
3	To be able to recall the knowledge about ethical and moral values
4	To be able to recall the knowledge of Turkish grammer and be able to use it
5	To be able to communicate effectively with patient, their family, and own team
6	To be able to control, use, and maintain the anesthesia machines
7	To be able to recall the information about anesthesia application in the system diseases
8	To be able to recall the issues that needed to be considered in follow-up of patients in intensive care.
9	To be able to make the patiens' care in intensive care
10	To be able to apply the cardiopulmonary resuscitation.
11	To be able to apply the drug, liquid and blood to the patient.
12	To be able to apply nasogastric tube to the patient and to aspirate.
13	To be able to assist the implementation of general anesthesia to patient.
14	To be able to recall the drugs used in general and regional anesthesia and learn to use them safely.
15	PO15. Can help during the maintanence, ending and post anaesthesia process.
16	Can help the practices of anesthesia and sedation outside the operation room.
17	Can communicate at the basic level of a foreign language and use this language in his job.
18	Be able to communicate at a basic level in a foreign language and be able to use this language in professional fields
19	To have the appropriate knowledge of basic sciences at the level of interest, to use specific medical terms and terminology of field

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	5
P2	3	3	3	3	3
P3	4	4	4	4	4
P4	4	4	4	4	4
P5	2	2	2	2	2
P6	1	1	1	1	1
P7	1	1	1	1	1
P8	1	1	1	1	1
P9	1	1	1	1	1
P10	1	1	1	1	1
P11	1	1	1	1	1
P12	1	1	1	1	1
P13	1	1	1	1	1
P14	1	1	1	1	1
P15	1	1	1	1	1
P16	1	1	1	1	1
P17	1	1	1	1	1
P18	5	5	5	5	5