

Vocational School / Medical Laboratory Techniques

2023 - 2024 Academic Year

MEDICAL BIOLOGY and GENETICS

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
MEDICAL BIOLOGY and GENETICS	TLT1163550	Fall Semester	2+0	2	6
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>	There isn't				
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Short Cycle (Associate's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Lect. Hasan SAĞCAN				
<b>Name of Lecturer(s)</b>	Lect. Sibel ÖZALP				
<b>Assistant(s)</b>	--				
<b>Aim</b>	To teach about hereditary materials, cell and cell facts.				
<b>Course Content</b>	This course contains; Alive and life science.,Cell, organel and skeleton,Transport to cell membrane and cell signaling,Energy and metabolism,Cell cycle and mitosis,Meiosis,Reproduction and evolution,Genetic material and replication,Protein synthesis,Mendel Genetics,Cancer and apoptosis,Hereditary Diseases,Population Genetics,Human Genome Project.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
Will able to talk about up to date biological issues.			16, 9	A	
Will summarize vitality and it's structures.			16, 9	A	
Will able examine the important biological molecules and their synthesis processes.			16, 9	A	
<b>Teaching Methods</b>	16: Question - Answer Technique, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequenc e</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Alive and life science.				
2	Cell, organel and skeleton				
3	Transport to cell membrane and cell signaling				
4	Energy and metabolism				
5	Cell cycle and mitosis				
6	Meiosis				
7	Reproduction and evolution				
8	Genetic material and replication				
9	Protein synthesis				
10	Mendel Genetics				
11	Cancer and apoptosis				
12	Hereditary Diseases				
13	Population Genetics				
14	Human Genome Project				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			
<b>Resources</b>					
Medical Biology and Genetics, Editors: Prof. Dr. Halil Kasap, Prof. Dr. Mülkiye Kasap, etc.Lecturer's notes					