

THE USE & MAINTENANCE of LABORATORY EQUIPMENT

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
THE USE & MAINTENANCE of LABORATORY EQUIPMENT	TLT1241980	Spring Semester	2+0	2	9
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Assist.Prof. Neziha HACIHASANOĞLU ÇAKMAK				
Name of Lecturer(s)	Assist.Prof. Neziha HACIHASANOĞLU ÇAKMAK				
Assistant(s)					
Aim	To give the knowledge on aims, usage and maintenance of devices which using in laboratory of biochemistry, genetics, pathology, histology.				
Course Content	This course contains; Glucotest,Bilirubinmeter,PCR-Polimerase Chain Reaction-1,PCR-2,Agarose Gel Electrophoresis,Centrifugation ,Types of Centrifugation,Autoanalyzer,pH meter,Waterbath and Sonicater,Microscobe,Heating Block, Shaker and Incubater,Autoclave,Sterilizater.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. Describe the devices they will encounter in the laboratory			16, 9	A, B, C	
2. Explains the working principles of laboratory devices			16, 9	A, B, C	
3. Performs cleaning and maintenance of the devices in the laboratory			16, 9	A, B, C	
Teaching Methods	16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, B: Short Answer Exam, C: Multiple-Choice Exam				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Glucotest				
2	Bilirubinmeter				
3	PCR-Polimerase Chain Reaction-1				
4	PCR-2				
5	Agarose Gel Electrophoresis				
6	Centrifugation				
7	Types of Centrifugation				
8	Autoanalyzer				
9	pH meter				
10	Waterbath and Sonicater				
11	Microscobe				
12	Heating Block, Shaker and Incubater				
13	Autoclave				
14	Sterilizater				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources

Lecturer's note.