

TOROS ÜNİVERSİTESİ

Vocational School
Medical Laboratory Techniques

Course Information

LABORATORY INSTRUMENTS I					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
TLT109	Fall	2	2	3	5

Prerequisites and co-requisites	
Language of instruction	Turkish
Type	Required
Level of Course	Associate
Lecturer	Lec. Meltem GÜNGÖR
Mode of Delivery	Face to Face
Suggested Subject	
Professional practise (internship)	None
Objectives of the Course	To give the knowledge and skills about the maintenance and cleaning of laboratory equipments. To give knowledge and skills about work flow in medical laboratory. To give knowledge and skills about laboratory safety, personal precautions, detection of physical, chemical and biological risks and taking precautions for the establishment of a safe laboratory.
Contents of the Course	General information of laboratory, Medical laboratory information, Safety data sheet (MSDS), Chemical hazard warning signs, Risks of chemicals, Laboratory glass, plastic, metal and other material knowledge and use, Laboratory physical conditions, Laboratory organization, Staff working in hospitals and medical laboratories, Duties and responsibilities of medical laboratory technicians

Learning Outcomes of Course

#	Learning Outcomes
1	Both the theoretical and the practical experience at the laboratory will be gain.
2	Various business fields to give students experimental knowledge.
3	Students expand their scientific perspectives.
4	Laboratory to identify the hazards
5	Take personal safety precautions in the laboratory
6	To determine the physical hazards and take precautions in the laboratory
7	Make safety organization in the lab

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	General laboratory information	Lecture, Powerpoint presentation, Question-Answer, Laboratory
2	General laboratory safety	Lecture, Powerpoint presentation, Question-Answer, Laboratory
3	Safety Data Sheet (MSDS)	Lecture, Powerpoint presentation, Question-Answer, Laboratory
4	Hazard warning signs for chemicals	Lecture, Powerpoint presentation, Question-Answer, Laboratory
5	The risks of chemicals	Lecture, Powerpoint presentation, Question-Answer, Laboratory
6	Used laboratory glass materials and applications	Lecture, Powerpoint presentation, Question-Answer, Laboratory
7	Used laboratory glass materials and applications	Lecture, Powerpoint presentation, Question-Answer, Laboratory

8	Mid-term Exam	
9	Used in the laboratory plastic, metal, other materials and applications	Lecture, Powerpoint presentation, Question-Answer, Laboratory
10	Used in the laboratory plastic, metal, other materials and applications	Lecture, Powerpoint presentation, Question-Answer, Laboratory
11	Physical conditions in the laboratory	Lecture, Powerpoint presentation, Question-Answer, Laboratory
12	Laboratory organization	Lecture, Powerpoint presentation, Question-Answer, Laboratory
13	Staff working in hospitals and medical laboratorie	Lecture, Powerpoint presentation, Question-Answer, Laboratory
14	Duties and responsibilities of a medical laboratory technician	Lecture, Powerpoint presentation, Question-Answer, Laboratory
15	Final Exam	
16		

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1			
2			
3			

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Both the theoretical and the practical experience at the laboratory will be gain.	1,2,3,4,6,8,9,10,12	1,2
2	Various business fields to give students experimental knowledge.	1,2,3,4,10,12	1,2
3	Students expand their scientific perspectives.	1,2,3,4,6,9,10,13	1,2
4	Laboratory to identify the hazards	1,2,3,4,8,9,11,12,13	1,2
5	Take personal safety precautions in the laboratory	1,2,3,4,5,7,9,10,11,12	1,2
6	To determine the physical hazards and take precautions in the laboratory	1,2,3,4,5,6,9,10,11,13	1,2
7	Make safety organization in the lab	1,2,3,4,6,7,8,9,10,11,12,13	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	4	56
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	3	42
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	8	8
8	Midterm Exam	1	1	1
9	Quiz	0	0	0

10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	12	12
16	Final Exam	1	1	1
				120