

Vocational School / Medical Laboratory Techniques

2023 - 2024 Academic Year

CURRENT CHEMICALS & DRUGS

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
CURRENT CHEMICALS & DRUGS	TLT1211250	Spring Semester	2+0	2	2
Prerequisites Courses					
Recommended Elective Courses	NO				
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Elective				
Course Coordinator	Assist.Prof. Ümit Can ERİM				
Name of Lecturer(s)	Assist.Prof. Ümit Can ERİM				
Assistant(s)	NO				
Aim	Is given information on changed the history of huminity of science in health science and chemistry some of drug, biological molecules, chemical products, selected like product's discoveries and properties, significance and functions of them.				
Course Content	This course contains; Significants of atoms, molecules, synthesis and chemicals of our life.,Uric acid, acetic acid, glucose, aspirin, camphor, terpineol, tropinon.,Heamin, quinin, morphin.,Steroides and contraception,Strychnine, penicillin, antibiotics I,,Antibiotics II.,Prostaglandines,leukotrienes, analgesics,Vitamines, nutritional suplaments.,Phytotherapeutics,Central Nervous System depressants, stimulants and dependency.,Taxol, amphotericin, cyclosporine, oncologic drugs.,Nucleic acids and enzymes.,Presentation.,Presentation..				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. Expresses the importance and functions of chemicals in all aspects of life.			13, 16, 9	A	
2. Recognizes the chemical structures that are used in his/her professional field.			13, 16, 9	A	
3. Names the chemical structures.			10, 16, 9	A	
Teaching Methods	10: Discussion Method, 13: Case Study Method, 16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Significants of atoms, molecules, synthesis and chemicals of our life.	presentations			
2	Uric acid, acetic acid, glucose, aspirin, camphor, terpineol, tropinon.	presentations			
3	Heamin, quinin, morphin.	presentations			
4	Steroides and contraception	presentations			
5	Strychnine, penicillin, antibiotics I,	presentations			
6	Antibiotics II.	presentations			
7	Prostaglandines,leukotrienes, analgesics	presentations			
8	Vitamines, nutritional suplaments.	presentations			
9	Phytotherapeutics	presentations			
10	Central Nervous System depressants, stimulants and dependency.	presentations			
11	Taxol, amphotericin, cyclosporine, oncologic drugs.	presentations			
12	Nucleic acids and enzymes.	presentations			
13	Presentation.	presentations			
14	Presentation.	presentations			
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources

Powerpoint notes will be given to students.Molecules That Changed The World, K. C. Nicolaou, T. Montagnon, Wiley Publications, 2008