

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	History of Nat	ural Sciences							
Course Code	ÇS310	ÇS310		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit 2	Workload	50 (Hours)	Theory	/	2 Practice 0 Laboratory 0		0		
Objectives of the Course The main objective is for of science and chemistr			e studer nd to ar	nts to nalyse	learn whicl e the metho	h important ev ods of scientist	ents, have ii s at importa	nfluenced the deve nt events in history	elopment /
Course Content	Important dev in Physics intr of the course	Important developments in the history of science will be discussed. This includes important developments in Physics introduced by Galileo and Newton. Important events in chemistry will make up more than half of the course and will include studies of scientists such as Dalton, Lavoisier and Mendeleev.							
Work Placement N/A									
Planned Learning Activities and Teaching Methods		Explar	nation	n (Presentat	tion), Discussi	on			
Name of Lecturer(s) Lec. Mert SOYSAL		YSAL							

Assessment Methods and Criteria

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

Recommended or Required Reading

1 History of Science and Technology

Week	Weekly Detailed Course Contents					
1	Theoretical	The solar system: Copernicus, Tycho, Kepler				
2	Theoretical	The first scientist: Galileo, Newton, Halley				
3	Theoretical	Gases and steam: Boyle, Black, Watt				
4	Theoretical	Chemistry: Cavendish, Priestley, Lavoisier				
5	Theoretical	The atom: Dalton, Avogadro				
6	Theoretical	Electrochemistry: Volta, Davy, Faraday				
7	Theoretical	Light: Young, Maxwell, Einstein				
8	Intermediate Exam	Midterm				
9	Theoretical	Periyodik cetvel				
10	Theoretical	The development of thermodynamics as a science				
11	Theoretical	Cathode rays and the electron				
12	Theoretical	x-rays, radioactivity and atomic structure				
13	Theoretical	Emission spectra and the electronic structure of the atom				
14	Theoretical	Bonding and molecular structure				
15	Theoretical	Bonding and molecular structure				

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	1	2	42	
Midterm Examination	1	2	1	3	
Final Examination	1	4	1	5	
Total Workload (Hours) 50					
[Total Workload (Hours) / 25*] = ECTS 2					
25 hour workload is accepted as 1 ECTS					

Learning Outcomes

1	1. Be able to describe the important events in the development of science
2	2. Be able to analyse the important contributions of scientist in the development of science.
3	3. Be able to summarise in good scientific style the important contributions of a scientist in the development of science.



4	Scientific Development
5	The lives of famous scientists
Progra	amme 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	4	4	4	4	4
P2	2	2	2	2	2
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	2	2	2	2	2
P18	5	5	5	5	5



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