


[DEGREE PROGRAMMES](#)
[BOLOGNA](#)
[THE INSTITUTION](#)
[INFO FOR STUDENTS](#)

You are here : [Home](#) [Bachelor's Degree \(First Cycle\)](#) [Physics](#) [Introduction to Chemistry II](#) **[Course Information](#)**

Course Information

COURSE INFORMATION

Course Title	Code	Semester	L+U Hour	Credits	ECTS
Introduction to Chemistry II	FEN126	2. Semester	2 + 2	3.0	4.0

Prerequisites	None
----------------------	------

Language of Instruction	Turkish
Course Level	Bachelor's Degree (First Cycle)
Course Type	Compulsory
Mode of delivery	Face to face
Course Coordinator	Assoc. Prof. Dr. Osman DAYAN
Instructors	Assoc. Prof. Dr. Osman DAYAN Prof. Dr. Eyüp ÖZDEMİR
Assistants	
Course Objectives	The aim of this course is to help students recognize the basic methodologies of chemistry.
Course Content	the scope of this course is: chemical kinetics; chemical equation; acids and base; equation of acid-base; solubility and complex ion equation; entropy and free energy; electrochemistry; Metals; Ametals; Transition metals; Nuclear chemistry; Organic chemistry
Course Learning Outcomes	1) explain the chemical kinetics 2) explain the equilibrium of chemical systems 3) express the basic properties of acids and bases 4) explain the condition of solubility 5) explain the entropi and free energy 6) express the chemical changes in the nucleus of atoms

WEEKLY COURSE CONTENT

Week	Topics	Teaching and Learning Methods and Techniques	Study Materials
1. Week	Chemical kinetics	lectures, homework	
2. Week	Chemical equation	lectures, homework	
3. Week	Acids and base	lectures, homework	
4. Week	Equation of acid-base	lectures, homework	
5. Week	Solubility and complex ion equation	lectures, homework	

Quick Access

Physics

- Qualification Awarded
- Level of Qualification
- Qualification Requirements and Regulations
- Specific Admission Requirements
- Recognition of Prior Learning
- Profile of the Program
- Program Key Learning Outcomes
- Occupational Profile of Graduates
- Access to Further Studies
- Course Structure & Credits
- Exam Regulations & Assessment & Grading
- Graduation Requirements
- Mode of Study
- Programme Director(or Equivalent)
- Evaluation Questionnaire
- TYYÇ

Course Information

- Course Information
- Weekly Course Content
- Resources
- Assessment
- Course Category
- CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES
- ECTS credits and course workload

6. Week	Entropy and free energy	lectures, homework	
7. Week	Electrochemistry	lectures, homework	
8. Week	Metals (Group 1 and Group 2 metals)	lectures, homework	
9. Week	midterm exam	written exam	
10. Week	Metals (Group 13 and Group 14 metals)	lectures, homework	
11. Week	Ametals	lectures, homework	
12. Week	Transition metals	lectures, homework	
13. Week	Complex ions and coordination compounds	lectures, homework	
14. Week	Nuclear chemistry	lectures, homework	
15. Week	final		
16. Week	final exam	written exam	

RESOURCES

Recommended Sources
Petrucci,R.H., Harwood, W.S., Herring, F.G., (8. Baskıdan Çeviri Uyar, T., Aksoy, S.), Palme Yayıncılık, Ankara, 2005
Temel Üniversite Kimyası E.ERDİK- Y.SARIKAYA,Gazi Kitabevi,2012

ASSESSMENT

Measurement and Evaluation Methods and Techniques		
Midterm Exam 1 % 40 Final 1 % 60 TOTAL : 100		
In-Term Studies	Quantity	Percentage
Mid Term Exam 1	1	40
Total	1	40
End-Term Studies	Quantity	Percentage
Final Exam	1	60
Total	1	60
Contribution Of In-Term Studies To Overall Grade		40
End-Term Studies		60
Total		100

COURSE CATEGORY

Course Category	Percentage
Core Courses	% 100

CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES

Programme Outcomes	Contribution Level	DK1	DK2	DK3	DK4	DK5	DK6
<u>PY1</u>	4	4	4	4	4	4	4
<u>PY2</u>	4	4	4	4	4	4	4
<u>PY3</u>	3	3	3	3	3	3	3
<u>PY4</u>	2	0	0	0	0	0	0
<u>PY5</u>	1	1	1	1	1	1	1

<u>PY6</u>	3	3	3	3	3	3	3
<u>PY7</u>	1	1	1	1	1	1	1
<u>PY8</u>	1	1	1	1	1	1	1
<u>PY9</u>	1	1	1	1	1	1	1
<u>PY10</u>	1	1	1	1	1	1	1
<u>PY11</u>	1	1	1	1	1	1	1
<u>PY12</u>	1	1	1	1	1	1	1
<u>PY13</u>	1	1	1	1	1	1	1
<u>PY14</u>	1	1	1	1	1	1	1
<u>PY15</u>	1	1	1	1	1	1	1

*DK = Course's Contribution.

	0	1	2	3	4	5
Level of contribution	None	Very Low	Low	Fair	High	Very High

ECTS CREDITS AND COURSE WORKLOAD

Event	Quantity	Duration (Hour)	Total Workload (Hour)
Final Exam	1	2	2
Mid Term Exam 1	1	2	2
Mid Term Exam Preparation	1	20	20
Final Exam Preparation	1	22	22
Class Hours (14 weeks)	14	4	56
Total Workload			102
Total Workload / 25.5 (s)			4.00
ECTS Credit of the Course			4