YOZGAT BOZOK UNIVERSITY FACULTY OF ARTS AND SCIENCES

CHEMISTRY DEPARTMENT COURSE PLAN

Course Code	Course Title	Semester	Course Type (C/E)	T+A+L (Time/Week)	Credit	ECTS	Course Language
KİM113	General Physics I	Fall	C	2+2+2		4	Turkish

COURSE INFORMATION

Course Catalog Description (Content)	Physical quantities, vectors, particle kinematics and dynamics, work-energy and conservation laws, collisions, kinematics and dynamics of rotating bodies, equilibrium of rigid bodies, oscillations, gravitation, fluid mechanics.
The Aim of the Course	1. In the field of physics textbooks that contain updated information, practical support and tools, and other scientific sources to have advanced theoretical and practical knowledge, 2. Use the information gained in the field of advanced theoretical and applied, 3.Alanındaki concepts and ideas of scientific methods to examine, interpret, and evaluate data, identify problems, analyze them, develop solutions based on scientific evidence, 4. Access to new knowledge in the field of physics and technology, 5. Use information from their own field of physics courses.
Course Level	Bachelor degree
Course Language	Turkish
Teaching method	(X) Formal ( ) Online ( ) Mixed/Hybrid
Teaching Staff of the Course	Related Lecturers
Prerequisite Course(s) of the Course	
Learning Outcomes from the Course	1. In the field of physics textbooks that contain updated information, practical support and tools, and other scientific sources to have advanced theoretical and practical knowledge, 2. Use the information gained in the field of advanced theoretical and applied, 3. Concepts and ideas in the field of scientific methods to examine, interpret, and evaluate data, identify problems, analyze them, develop solutions based on scientific evidence, 4. Access to new knowledge in the field of physics and technology, 5. Use information from their own field of physics courses.

COURSE CONTENT

Week	Theory	Practice/Laboratory
1	Units, Physical Quantities, Geometry and Physics	
2	Vectors	
3	One-dimensional motion	
4	Two-dimensional motion	
5	Newton's Laws of Motion	
6	Circular Motion	
7	Business Energy	
8	Potential Energy and Energy Conservation	
9	Potential Energy and Energy Conservation	
10	Linear Momentum and Collisions	

11	Linear Momentum and Collisions	
12	Rotation of a Rigid Body Hard	
13	Angular Momentum and Torque	
14	Angular Momentum and Torque	
15	Final Exam	

Course Learning Resources

1. Physics for Science and Engineering I (Serway, Palme Publishing)
2. Fundamentals of Physics I (Arkadaş Publishing)

ASSESSMENT CRITERIA

Work Activities During the Semester	Number	Contribution
Homework	1	%30
Practice		
Forum/ Discussion Application		
Short Exam (Quiz)	2	%35
Ratio Of Semester Studies To Semester Success (%)		%40
Ratio of Final to Success (%)	1	%60
Total		%100

COURSE WORKLOAD TABLE

Activity	Total Weeks	Duration (Weekly Hours)	Total Workload
Theory	14	2	28
Practice			
Forum/ Discussion Application			
Reading	14	2	28
Internet Scanning, Library Study	14	2	28
Material Design, Application			
Report Preparation			
Presentation Preparation			
Presentation			
Final Exam	1	2	2
Preparation for the Final Exam	2	7	14
Other(s) (Specify: … …. ……..)			
Total Workload			
Total Workload / 25 (s)			100/25
ECTS Credits of the Course			$100/25 \cong 4$
Note: The workload of the course will be determined by the instructor on a per-course basis.			

PROGRAM LEARNING OUTPUTS CONTRIBUTION LEVELS

No	Program Learning Outputs	1	2	3	4	5
1	Gains extensive knowledge about the basic chemical properties of matter and uses this knowledge in daily life, industrial scale, and practical chemistry and shares them with the society.	**X**				
2	Performs experiments, collects data, interprets, evaluates results, defines problems parallel to current technological developments, produces solutions against problems encountered in the laboratory.	**X**				
3	Calculates and processes chemical information and data.	**X**				

4	Applies her/his knowledge and understanding of chemistry to the solution of unconventional qualitative and quantitative problems.	**X**				
5	Defines and comprehends chemical concepts and theories in Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry, Biochemistry.	**X**				
6	Can conduct research in the light of scientific data on any subject in the field of chemistry.	**X**				
7	Writes, presents, discusses scientific material, and presents it orally to a knowledgeable audience.	**X**				
8	Brings a chemical approach to the solution of environmental problems, makes environmental analyzes and reports.	**X**				
9	Knows a foreign language at a level to read and understand the basic terms and processes of the chemist profession.	**X**				
10	Can use computer software and information and communication technologies at the level required by the field.	**X**				
11	Adapts and transfers the knowledge gained in the field to secondary education.	**X**				
12	Apart from the field of chemistry, she/he gains knowledge in different branches of science that she feels close to.	**X**				
13	Carries out a study independently, makes group work and gains the awareness of taking responsibility.	**X**				
14	They can develop a positive attitude towards lifelong learning and constantly renew their professional knowledge and skills.	**X**				
15	Have sufficient awareness of the universality of social rights, social justice, quality culture and protection of cultural values, environmental protection, occupational health and safety.	**X**				