

YOZGAT BOZOK UNIVERSITY FACULTY OF ARTS AND SCIENCES CHEMISTRY DEPARTMENT COURSE PLAN

| Course Code | Course Title | Semes ter | Course Type (C/E) | T+A+L (Time/Week) | Credi t | ECT S | Course Language | | |
|--|------------------------------------|---|-------------------------|--|------------|----------|--------------------|--|--|
| KİM122 | General Chemistry Laboratory II | Spring | C | 0+4+4 | | 4 | Turkish | | |
| | | COURSE | INFORMA | ΓΙΟΝ | 1 | 1 | | | |
| Course Catalog Description (Content) The Aim of the Course | | Introduction, General Information, Water Hardness Measurements Experiment, Extraction, Determination of Molecular Mass of a Liquid by Water Vapor Distillation, pH (Acids and Bases), Determination of Equivalent Mass of Magnesium Experiment, Determination of Solubility Product of Copper (II) Iodate Experiment, Chemical Equilibrium Experiment, Chemical Equilibrium Kinetic Experiment, Organic Compounds Experiment, Chromatography Experiment It is aimed to teach the students to know the substance, prepare solution, basic laboratory experiments (crystallization, distillation, | | | | | | | |
| Course Level | | Bachelor degree | | | | | | | |
| Course Language | | Turkish | | | | | | | |
| Teaching method | | (X) Formal () Online () Mixed/Hybrid | | | | | | | |
| Teaching Staff of the Course | | Related Lecturers | | | | | | | |
| Prerequ Course | site Course(s) of the | | | | | | | | |
| Course | | Defines laboratory rules, instruments and techniques. Defines laboratory rules, instruments and techniques. Can plan chemistry experiments. Can set up laboratory instruments as a set for experiment. Uygun bilimsel ölçümleri uygular ve verileri kaydeder. Prepares charts and graphs, analyzes and interprets test results. | | | | | | | |
| | [hoony | | | ntico/l choratory | _ | | | | |
| Week | Theory | 141 | Pro | actice/Laboratory | | | | | |
| 1 | | <u> </u> | Int | roduction | - | | | | |
| 2 | 2 | | | Water Hardness Measurements Test | | | | | |
| 3 | | | VV2 | | | | | | |
| 4 | 4 | | | Extraction | | | | | |
| 5 | | | De Dis | Determination of Molecular Mass by Water Vapor Distillation of a Liquid | | | | | |
| | | | | pH (Acids and Bases) | | | agnasium | | |
| | | | Ex | Experiment | | | agnesium | | |
| 8 | | | Ex Co | Experiment for Determining the Solubility Product of Copper (II) Iodate | | | ity Product of | | |
| 10 | | | | | | | | | |
| 10 | | | Cn | | | | | | |
| 11 | | | | Organic Compounds Experiment | | | | | |
| 12 | 2 | | | Company Experiment | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | Compensation Week | | | | | |

15

Final Exam

Course Learning Resources 1. Sarikaya, Y. 2004. Basic University Chemistry, Gazi Bookstore, Ankara 2. 2- General Chemistry Laboratory Shoet

| ASSESSMEN | IT 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 TAI | BLE | | | | | |
|----------------------------------|--|-----------------------------------|----------------------------------|-----|----------------|--------|---|--|
| Activity | / | Total Weeks | Weeks Duration (Weekly Hours) | | Total Workload | | | |
| Theory | | | | | | | | |
| Practice | | 14 | 4 | 4 | | 56 | | |
| Forum/ | Discussion Application | | | | | | | |
| Readin | g | 14 | 1 | 1 | | 14 | | |
| Internet Scanning, Library Study | | 14 | 1 | 1 | | 14 | | |
| Materia | l Design, Application | | | | | | | |
| Report Preparation | | 14 | 1 | 1 | | 14 | | |
| Presen | tation Preparation | | | | | | | |
| Presen | tation | | | | | | | |
| Final Exam | | 1 | 1 | | | | | |
| Preparation for the Final Exam | | 1 | 3 | | 3 | | | |
| Other(s) (Specify:) | | H | | | | | | |
| Total W | /orkload | AU | 1 | | | | | |
| Total W | /orkload / 25 (s) | | | | | 102/25 | | |
| ECTS C | ECTS Credits of the Course | | | | 102/25≌4 | | | |
| Note: Th | e workload of the course will be d | letermined by the instructor on a | per-course bas | is. | | | | |
| | | | | | | | | |
| | PROGRAM LE | ARNING OUTPUTS CONTR | | ELS | | | | |
| 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 | | | | х | | | |
| | practical chemistry and shares t | hem with the society. | | | | | | |
| 2 | Performs experiments, collects data, interprets, evaluates results, | | | | | | x | |
| | produces solutions against problems encountered in the laboratory. | | | | | | ~ | |
| 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 | | | | v | | | |
| | Analytical Chemistry, Biochemis | try. | | | ~ | | | |
| 6 | Can conduct research in the light of scientific data on any subject in | | | | | 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 | | | |

