

Vocational School / Physiotherapy

2024 - 2025 Academic Year

CURRENT CHEMICALS & DRUGS

Syllabus

| Course Description   |   |                         |                         |                           |      |
|--|---|-------------------------|-------------------------|---------------------------|------|
| Name   | Code  | Semester                | T+A Hour                | Credit                    | ECTS |
| CURRENT CHEMICALS & DRUGS  | FZT1211250  | Spring Semester         | 2+0                     | 2                         | 2    |
| <b>Prerequisites Courses</b>   |   |                         |                         |                           |      |
| <b>Recommended Elective Courses</b>  | NO  |                         |                         |                           |      |
| <b>Language of Instruction</b>   | Turkish   |                         |                         |                           |      |
| <b>Course Level</b>  | Short Cycle (Associate's Degree)  |                         |                         |                           |      |
| <b>Course Type</b>   | Elective  |                         |                         |                           |      |
| <b>Course Coordinator</b>  | Assist.Prof. Ümit Can ERİM  |                         |                         |                           |      |
| <b>Name of Lecturer(s)</b>   | Assist.Prof. Ümit Can ERİM  |                         |                         |                           |      |
| <b>Assistant(s)</b>  | NO  |                         |                         |                           |      |
| <b>Aim</b>   | 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.   |                         |                         |                           |      |
| <b>Course Content</b>  | 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.. |                         |                         |                           |      |
| <b>Course Learning Outcomes</b>  |   |                         | <b>Teaching Methods</b> | <b>Assessment Methods</b> |      |
| 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                         |      |
| <b>Teaching Methods</b>  | 10: Discussion Method, 13: Case Study Method, 16: Question - Answer Technique, 9: Lecture Method  |                         |                         |                           |      |
| <b>Assessment Methods</b>  | A: Traditional Written Exam   |                         |                         |                           |      |
| <b>Lecture Schedule</b>  |   |                         |                         |                           |      |
| 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           |                         |                           |      |
| <b>Evaluation Methods</b>  |   | <b>Weight(%)</b>        |                         |                           |      |
| 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