## Course Syllabus

| | |
|---|---|
| **Code - Course Title** | **ECZ493 - Pharmaceutical and Medicinal Chemistry III** |
| **Course Type** | VII. SEMESTER |
| **Laboratory + Practice** | 2+1 |
| **ECTS** | **3.0** |
| **Language of Instruction** | Türkçe |
| **Course Type** | Required Courses |
| **Course Instructor(s)** | PROF. DR. NALAN GÜNDOĞDU KARABURUN, DOÇ. DR. DERYA OSMANİYE |

| | |
|---|---|
| **Mode of Delivery** | The mode of delivery of this course is Face to face |
| **Prerequisites** | There is no prerequisite or co-requisite for this course. |
| **Courses Recomended** | There is no recommended optional programme component for this course. |
| **Work Placement** | Not Applicable |

## Course Syllabus

| Weeks | Learning Outcomes | Topics | Teaching Methods |
|---|---|---|---|
| **Week - 1** | | Beta-lactam antibiotics | |
| **Week - 2** | | Beta-lactam antibiotics, Macrolide and Polypeptide structure antibiotics | |
| **Week - 3** | | Sulfonamides, Co-trimoxazole and Trimethoprim, Oxazolidinones, Quinolones, Nitroheterocyclics | |
| **Week - 4** | | Tetracyclines, Amphenicols, Aminoglycosides, Antibiotics with different structures | |
| **Week - 5** | | Antifungal Drugs | |
| **Week - 6** | | Antiviral Drugs | |
| **Week - 7** | | Antimycobacterial Drugs, Antiseptics and Disinfectants | |
| **Week - 8** | | Antiprotozoal drugs, Anthelmintic drugs, Drugs used against ectoparasites | |
| **Week - 9** | | Synthesis Application I (Lab) | |
| **Week - 10** | | Synthesis Application II (Lab) | |
| **Week - 11** | | Synthesis Practice III (Lab) | |
| **Week - 12** | | Antitussive Drugs, Expectorants, Mucolytic Drugs, Bronchodilators and Anti-asthmatic Drugs | |
| **Week - 13** | | Anticancer Drugs | |
| **Week - 14** | | Anticancer Drugs | |

## Learning Outcomes

| # | Learning Outcome |
|---|---|
| 1 | Explain antibiotics. |
| 2 | Explain Sulfonamides. |
| 3 | Explain quinolones. |
| 4 | Explain oxazolidinones. |
| 5 | Explain nitroheterocycles. |
| 6 | Explain antifungal drugs. |
| 7 | Explain Antiviral Drugs. |
| 8 | Explain antimycobacterial drugs. |
| 9 | Explain antiprotozoal drugs. |
| 10 | Explain anthelmintic drugs. |
| 11 | Explain the drugs used against ectoparasites. |
| 12 | Explain Antiseptics and Disinfectants. |
| 13 | Explain Anticancer Drugs. |
| 14 | Explain antitussive, expectorant and mucolytic drugs. |
| 15 | Explain Bronchodilator and Antiasthmatic Drugs. |
| 16 | Be able to perform synthesis applications. |
| 17 | Be able to perform separation and purification applications. |
| 18 | Be able to perform IR Spectroscopy applications. |
| 19 | Be able to perform 1H NMR Spectroscopy applications. |
| 20 | Be able to perform mass spectroscopy applications. |

## Sustainable Development Goals

*No content has been provided.*

## Course Theme

*No content has been provided.*

## AKTS Workload

| Activity | Duration (Hour) | Count | Workload |
|---|---|---|---|
| Teorik Derse Katılım | 0 | 0 | 0 |
| Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı) | 0 | 0 | 0 |
| Ödevler | 0 | 0 | 0 |
| Proje - Rapor - Sunum Hazırlama | 0 | 0 | 0 |
| Ara Sınav Hazırlığı (sınav süresi dahil) | 0 | 0 | 0 |
| Final Sınavı Hazırlığı (sınav süresi dahil) | 0 | 0 | 0 |
| Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.) | 0 | 0 | 0 |
| Staj Uygulaması | 0 | 0 | 0 |

## AKTS Workload

| Activity | Duration (Hour) | Count | Workload |
|---|---|---|---|
| | | Calculated ECTS | 0 |

## Assessment Method and Passing Requirements

*No content has been provided.*