## Course Syllabus

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|---|---|
| **Code - Course Title** | **BİY363 - Microbial Techniques** |
| **Course Type** | V. SEMESTER |
| **Laboratory + Practice** | 3+0 |
| **ECTS** | **4.5** |
| **Language of Instruction** | Türkçe |
| **Course Type** | Area Elective Courses |
| **Course Instructor(s)** | PROF. DR. KIYMET GÜVEN |

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| **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. |
| **Recommended Resources** | * Gürgün, V. & Halkman K. (1988) Mikrobiyolojide Sayım Yöntemleri * Temiz, A. (1996). Genel Mikrobiyoloji Uygulama Teknikleri * Akçelik, M. ve ark. (2000) Gıda Mikrobiyolojisi ve Uygulamaları (Genişletilmiş 2. baskı). Ankara. |
| **Work Placement** | N/A |

## Course Syllabus

| Weeks | Learning Outcomes | Topics | Teaching Methods |
|---|---|---|---|
| **Week - 1** | | Introduction, media preparation | |
| **Week - 2** | | Cultural methods for counting microorganisms | |
| **Week - 3** | | Cultural methods for counting microorganisms | |
| **Week - 4** | | Microscobical methods for counting microorganisms | |
| **Week - 5** | | Standartized methods for counting microorganisms | |
| **Week - 6** | | Metabolic methods for counting microorganisms, Other methods for counting microorganisms | |
| **Week - 7** | | Biochemical tests | |
| **Week - 8** | | Indicator microorganisms | |
| **Week - 9** | | Indicator microorganisms | |
| **Week - 10** | | Hydrofobic Grid membran filtration technique | |
| **Week - 11** | | Hydrofobic Grid membran filtration technique | |
| **Week - 12** | | Direct Epifluorescens Microscopy technique | |
| **Week - 13** | | Electrical Impedans technique | |

## Course Syllabus

| Weeks | Learning Outcomes | Topics | Teaching Methods |
|---|---|---|---|
| **Week - 14** | | Bioluminesance technique | |

## 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 |
| | | **Calculated ECTS** | **0** |

## Assessment Method and Passing Requirements

*No content has been provided.*

| Assessment Method and Passing Requirements | Quamtity | Percentage (%) |
|---|---|---|
| 1.Midterm Exam | 1 | 15 |
| Final Exam | 1 | 50 |
| 2.Midterm Exam | 1 | 15 |
| | **Sum (%)** | **80** |