# AYDIN ADNAN MENDERES UNIVERSITY
# COURSE INFORMATION FORM

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Course Title | Microbiology | | | | | | | | |
| Course Code | LVS102 | | Couse Level | Short Cycle (Associate's Degree) | | | | | |
| ECTS Credit | 3 | Workload | 75 *(Hours)* | Theory | 3 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | To teach the formation and nomenclature of infectious causes, their anatomical structures, genetics, nutrition, metabolism and metabolism. | | | | | | | | |
| Course Content | Characteristics of bacteria, named and anatomical structures, bacterial pathogenicity, antimicrobial classes, basic bacteriology, gram negative and positive organisms. | | | | | | | | |
| Work Placement | N/A | | | | | | | | |
| Planned Learning Activities and Teaching Methods | Explanation (Presentation), Case Study, Project Based Study, Individual Study | | | | | | | | |
| Name of Lecturer(s) | Ins. Tayfun ŞAHİN, Lec. Devrim BEYAZ | | | | | | | | |

| **Assessment Methods and Criteria** | | |
|---|---|---|
| Method | Quantity | Percentage (%) |
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 70 |

| **Recommended or Required Reading** | |
|---|---|
| 1 | Arda M., Minbay A., Leleoğlu N., Aydın N., Kahraman M., Akay Ö., Ilgaz A. İzgür M. Diker S., Special Microbiology, Medisan Publication Series, Ankara. |
| 2 | Veterinary Microbiology and Immunology, Edt. Cengiz, Ş., ATATÜRK ÜNİVERSİTESİ AÇIKÖĞRETİM FAKÜLTESİ YAYINI ERZURUM, 2019 |

| Week | Weekly Detailed Course Contents | |
|---|---|---|
| 1 | Theoretical | Classification and nomenclature of bacteria |
| | Preparation Work | Textbook |
| 2 | Theoretical | Anatomical structure of bacteria |
| | Preparation Work | Textbook |
| 3 | Theoretical | Nutrition, reproduction, metabolism in bacteria |
| | Preparation Work | Textbook |
| 4 | Theoretical | Bacterial pathogenicity |
| | Preparation Work | Textbook |
| 5 | Theoretical | Bacterial genetics |
| | Preparation Work | Textbook |
| 6 | Theoretical | Antimicrobial approaches |
| | Preparation Work | Textbook |
| 7 | Theoretical | Epidemiology |
| | Preparation Work | Textbook |
| 8 | Preparation Work | Textbook |
| | Intermediate Exam | Midterm exam |
| 9 | Preparation Work | Textbook |
| | Intermediate Exam | Gram positive bacteria |
| 10 | Theoretical | Gram negative bacteria and Enterobacteria |
| | Preparation Work | Textbook |
| 11 | Theoretical | Acidoresistant bacteria and Actinomycetes |
| | Preparation Work | Textbook |
| 12 | Theoretical | Anaerobes |
| | Preparation Work | Textbook |
| 13 | Theoretical | Mycoplasma and Spirochetes |
| | Preparation Work | Textbook |
| 14 | Theoretical | Obligate intracellular bacteria |

| | | |
|---|---|---|
| 14 | Preparation Work | Textbook |
| 15 | Theoretical | Basic mycology – Fungi and yeasts |
| | Preparation Work | Textbook |
| 16 | Preparation Work | Textbook |
| | Final Exam | Final exam |
| 17 | Preparation Work | Textbook |
| | Final Exam | Final exam |

**Workload Calculation**

| Activity | Quantity | Preparation | Duration | Total Workload |
|---|---|---|---|---|
| Lecture - Theory | 14 | 1 | 2 | 42 |
| Lecture - Practice | 14 | 0 | 1 | 14 |
| Midterm Examination | 1 | 7 | 1 | 8 |
| Final Examination | 1 | 10 | 1 | 11 |
| | | | Total Workload (Hours) | 75 |
| | | | [Total Workload (Hours) / 25*] = **ECTS** | 3 |

**25 hour workload is accepted as 1 ECTS*

**Learning Outcomes**

| | |
|---|---|
| 1 | To know the classification and nomenclature of microorganisms that cause infectious diseases. |
| 2 | Recognizing bacterial pathogenicity |
| 3 | Learning about antimicrobial approaches. |
| 4 | To know gram negative and positive bacteria. |
| 5 | To have knowledge about fungi and yeasts. |

**Programme Outcomes** *(Laboratory and Veterinery Sciences)*

| | |
|---|---|
| 1 | To be able to understand and use , where information about Veterinary Technician |
| 2 | To be able to analyze and synthesize |
| 3 | To be able to have awareness of ethical and professional responsibility |
| 4 | To be able to recognise the basic features of animal species and breeds |
| 5 | To be able tomake and test preparation In the laboratory, under the supervision of the veterinarian in charge of registration, |
| 6 | To be able to care of animals Asepsis and antisepsis to do with the preoperative and postoperative |
| 7 | To be able to control of parasitic infestations and infectious disease prevention and veterinary advice can be helpful when working on |
| 8 | To be able toprepare and use of animal feeding protocolsIn theory |
| 9 | To be able to Veterinarian examination, imaging, and surgical applications of finding assistance during the application and conduct any kind planned by Veterinarian |
| 10 | To be able to Make efforts to enhance productivity in animal husbandry |

**Contribution of Learning Outcomes to Programme Outcomes** *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

| | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|
| P1 | 5 | 5 | 5 | 5 | 5 |
| P2 | 5 | 5 | 5 | 5 | 5 |
| P3 | 3 | 3 | 3 | 3 | 3 |
| P4 | 1 | 1 | 3 | 3 | 3 |
| P5 | 4 | 2 | 4 | 5 | 4 |
| P6 | 2 | 2 | 2 | 1 | 1 |
| P7 | 5 | 5 | 5 | 5 | 5 |
| P8 | 1 | 1 | 1 | 1 | 1 |
| P9 | 1 | 1 | 1 | 1 | 1 |
| P10 | 3 | 3 | 3 | 3 | 3 |