



AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
VETERINARY MICROBIOLOGY
MICROBIOLOGY
MICROBIOLOGY (VETERINARY) MASTER'S WITHOUT THESIS
COURSE INFORMATION FORM

| | | | | | | | | | |
|--|--|--------------|------------|--------|--------------------------------|----------|---|------------|---|
| Course Title | Enterobacteriaceae Family and Infections | | | | | | | | |
| Course Code | MİK504 | Course Level | | | Second Cycle (Master's Degree) | | | | |
| ECTS Credit | 4 | Workload | 99 (Hours) | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | The objective of this course is to give information about Enterobacteriaceae family. | | | | | | | | |
| Course Content | The classification of Enterobacteriae. The infections of E. coli. Salmonella, Yersinia, Shigella, Klebsiella and Enterobacter infections. The genus of other Enterobacteriae species and their infections. | | | | | | | | |
| Work Placement | N/A | | | | | | | | |
| Planned Learning Activities and Teaching Methods | Explanation (Presentation), Demonstration, Discussion, Case Study | | | | | | | | |
| Name of Lecturer(s) | Prof. Süheyla TÜRKÜYLMAZ | | | | | | | | |

| Assessment Methods and Criteria | | |
|---------------------------------|----------|----------------|
| Method | Quantity | Percentage (%) |
| Midterm Examination | 1 | 20 |
| Final Examination | 1 | 60 |
| Quiz | 2 | 10 |
| Assignment | 4 | 10 |

| Recommended or Required Reading | |
|---------------------------------|---|
| 1 | Koneman's Color Atlas and Textbook of Diagnostic Microbiology |
| 2 | Bergey's manual of systematic bacteriology |
| 3 | Desk Encyclopedia of Microbiology By Medikando |
| 4 | Salmonella in Domestic Animals |
| 5 | Veterinary Microbiology |
| 6 | Veteriner Bakteriyoloji |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical | Classification of Enterobacteriaceae family |
| 2 | Theoretical | Classification of Enterobacteriaceae family |
| 3 | Theoretical | E. coli infections |
| 4 | Theoretical | E. coli infections |
| 5 | Theoretical | Salmonella infections |
| 6 | Theoretical | Salmonella infections |
| 7 | Theoretical | Yersinia infections |
| 8 | Intermediate Exam | Midterm Examination |
| 9 | Theoretical | Shigella infections |
| 10 | Theoretical | Klebsiella infections |
| 11 | Theoretical | Enterobacter infections |
| 12 | Theoretical | Other Enterobacteriaceae family genus infections |
| 13 | Theoretical | Other Enterobacteriaceae family genus infections |
| 14 | Theoretical | Other Enterobacteriaceae family genus infections |
| 15 | Theoretical | Discussion |

| Workload Calculation | | | | |
|----------------------|----------|-------------|----------|----------------|
| Activity | Quantity | Preparation | Duration | Total Workload |
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Assignment | 4 | 5 | 2 | 28 |
| Laboratory | 14 | 0 | 2 | 28 |
| Quiz | 2 | 1 | 1 | 4 |
| Midterm Examination | 1 | 1 | 1 | 2 |



| | | | | |
|---|---|---|---|----|
| Final Examination | 1 | 8 | 1 | 9 |
| Total Workload (Hours) | | | | 99 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 4 |
| *25 hour workload is accepted as 1 ECTS | | | | |

Learning Outcomes

| | |
|---|--|
| 1 | 1. To be able to name Enterobacteriaceae family |
| 2 | 2. To be able to classify Enterobacteriaceae family |
| 3 | 3. To be able to name other Enterobacteriaceae family genus and infections |
| 4 | 4. To be able to use the necessary information. |
| 5 | To be able to use the necessary information. |

Programme Outcomes (*Microbiology (Veterinary) Master's Without Thesis*)

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|---|---|
| 1 | Department has the ability to identify and apply information about bacteriology, virology, mycology and has the ability to recognize diseases about veterinary medicine |
| 2 | Department has the ability to take the advantage of technology and has the ability to diagnose, treat and prevent the diseases by using appropriate equipments |
| 3 | Department has the ability to analyze the epidemiological compounds of an animal population and has the ability to get precautions. |
| 4 | Department has the ability to test or analyze the diseases and has the ability to evaluate the results. |
| 5 | Department has the ability to perform, produce and conclude projects for scientific researches. |

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 | 4 | 4 | 4 |
| P2 | 5 | 4 | 4 | 4 | 4 |
| P3 | 4 | 4 | 4 | 4 | 5 |
| P4 | 5 | 4 | 5 | 5 | 5 |
| P5 | 5 | 5 | 5 | 5 | 5 |

