



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|--|----------|--------------|--------|--------------------------------|----------|---|------------|---|
| Course Title | Gram Positive Cocci and Infections | | | | | | | | |
| Course Code | MİK502 | | Course Level | | Second Cycle (Master's Degree) | | | | |
| ECTS Credit | 4 | Workload | 100 (Hours) | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | The objective of this course is to describe the pathogenicity criteria of Streptococci and Staphylococci species that cause infections and give information about these species. | | | | | | | | |
| Course Content | The properties of pathogenicity criteria of Staphylococcus and Streptococcus species that cause infections in animals. The classification Streptococci according to their enzymatic reactions. The detection of antigenic character of the cell wall. Presence of virulence structures. The role of cell structure of Staphylococci in pathogenesis, the properties of toxin synthesis. Their enzymatic activities and antimicrobial susceptibilities. | | | | | | | | |
| Work Placement | N/A | | | | | | | | |
| Planned Learning Activities and Teaching Methods | Explanation (Presentation), Discussion, Case Study | | | | | | | | |
| Name of Lecturer(s) | Prof. Serap SAVAŞAN, Prof. Şükrü KIRKAN, Prof. Uğur PARIN | | | | | | | | |

Assessment Methods and Criteria

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

Recommended or Required Reading

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|---|---|
| 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 | Principles of Bacterial Pathogenesis |
| 5 | Color Atlas of Diagnostic Microbiology |
| 6 | Veteriner Bakteriyoloji |

Weekly Detailed Course Contents & Teaching Methods

| Week | Weekly Detailed Course Contents & Teaching Methods |
|------|---|
| 1 | Theoretical Pathogenicity criteria of Staphylococci |
| 2 | Theoretical Pathogenicity criteria of Streptococci |
| 3 | Theoretical Enzymatical grouping of Streptococci |
| 4 | Theoretical Enzymatical grouping of Staphylococci |
| 5 | Theoretical Determination of antigenic character of cell wall |
| 6 | Theoretical Presence of structures with virulence properties |
| 7 | Theoretical Roles of cell structures of Staphylococci in pathogenesis |
| 8 | Theoretical Discussion |
| 9 | Theoretical Roles of cell structures of Staphylococci in pathogenesis |
| 10 | Theoretical Toxin production properties of Staphylococci |
| 11 | Theoretical Toxin production properties of Staphylococci |
| 12 | Theoretical Enzymatic actions and antibiotic susceptibilities |
| 13 | Theoretical Enzymatic actions and antibiotic susceptibilities |
| 14 | Theoretical Enzymatic actions and antibiotic susceptibilities |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Assignment | 4 | 2 | 7 | 36 |
| Laboratory | 14 | 0 | 2 | 28 |
| Quiz | 2 | 1 | 1 | 4 |
| Midterm Examination | 1 | 1 | 1 | 2 |



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|---|---|---|---|-----|
| Final Examination | 1 | 1 | 1 | 2 |
| Total Workload (Hours) | | | | 100 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 4 |
| *25 hour workload is accepted as 1 ECTS | | | | |

Learning Outcomes

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|---|--|
| 1 | 1. To be able to define Streptococci and Staphylococci species |
| 2 | 2. To be able to identify enzymatic groupings of Streptococci |
| 3 | 3. To be able to explain the roles of cell structures in pathogenesis and toxin production properties of Staphylococci |
| 4 | 4. To be able to define antibiotic susceptibility of Staphylococcus and Streptococcus species |
| 5 | 5. To be able to use the necessary information. |

Programme Outcomes (Microbiology (Veterinary Medicine) Master)

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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. |
| 6 | Department has the ability to donate theoretical and practical knowledge about postgraduate students in the are of microbiology. |
| 7 | Graduate students has the ability to perform 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 | 4 | 4 | 5 | 4 |
| P2 | 4 | 4 | 5 | 4 | 5 |
| P3 | 4 | 4 | 4 | 4 | 4 |
| P4 | 5 | 4 | 5 | 4 | 5 |
| P5 | 4 | 5 | 4 | 5 | 4 |
| P6 | 5 | 4 | 5 | 4 | 4 |
| P7 | 4 | 5 | 4 | 5 | 5 |

