



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|---|--|----------------------|---|---|--------------------------------|---|------------|---|
| Course Title | | Vaccine Production Techniques and Practices | | | | | | | |
| Course Code | | MİK557 | | Couse Level | | Second Cycle (Master's Degree) | | | |
| ECTS Credit | 4 | Workload | 100 (<i>Hours</i>) | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | The objective of this course is to give information about vaccine production techniques and practices. | | | | | | | |
| Course Content | | Production techniques and practical fields of attenuated and inactivated bacterial-viral vaccines for protection of infectious diseases. | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Demonstration, Discussion, Case Study | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1 | 20 |
| Final Examination | 1 | 40 |
| Quiz | 2 | 20 |
| Assignment | 2 | 20 |

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 | Veteriner Bakteriyoloji |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|---|
| 1 | Theoretical | Production techniques and practical fields of attenuated and inactivated bacterial vaccines |
| 2 | Theoretical | Production techniques and practical fields of attenuated and inactivated bacterial vaccines |
| 3 | Theoretical | Production techniques and practical fields of attenuated and inactivated bacterial vaccines |
| 4 | Theoretical | Production techniques and practical fields of attenuated and inactivated bacterial vaccines |
| 5 | Theoretical | Production techniques and practical fields of live and inactive bacterial vaccines |
| 6 | Theoretical | Production techniques and practical fields of attenuated and inactivated bacterial vaccines |
| 7 | Theoretical | Production techniques and practical fields of attenuated and inactivated bacterial vaccines |
| 8 | Intermediate Exam | Midterm Examination |
| 9 | Theoretical | Production techniques and practical fields of attenuated and inactivated bacterial vaccines |
| 10 | Theoretical | Production techniques and practical fields of attenuated and inactivated bacterial vaccines |
| 11 | Theoretical | Production techniques and practical fields of live and inactive bacterial vaccines |
| 12 | Theoretical | Production techniques and practical fields of attenuated and inactivated bacterial vaccines |
| 13 | Theoretical | Production techniques and practical fields of attenuated and inactivated bacterial vaccines |
| 14 | Theoretical | Production techniques and practical fields of attenuated and inactivated bacterial vaccines |
| 15 | Theoretical | Discussion |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Assignment | 2 | 5 | 1 | 12 |
| Laboratory | 14 | 0 | 2 | 28 |
| Quiz | 2 | 5 | 1 | 12 |
| Midterm Examination | 1 | 8 | 2 | 10 |



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|---|---|---|---|-----|
| Final Examination | 1 | 8 | 2 | 10 |
| 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 use vaccine production techniques and practices |
| 2 | 2. To be able to perform vaccine applications |
| 3 | 3. To be able to use the necessary information |
| 4 | To have knowledge about live vaccine production. |
| 5 | To have knowledge about the production of inactive vaccine. |

Programme Outcomes (Microbiology (Veterinary Medicine) 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 | 4 | 4 | 4 | 5 |
| P2 | 5 | 4 | 4 | 4 | 5 |
| P3 | 4 | 5 | 5 | 4 | 4 |
| P4 | 5 | 4 | 4 | 5 | 5 |
| P5 | 3 | 3 | 5 | 3 | 4 |

