



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

| | | | | | | | | | |
|--|---|--|----------------------|---|---|--------------------------------|---|------------|---|
| Course Title | | Mycorrhizae Plant Health Relationships | | | | | | | |
| Course Code | | ZBK536 | | Couse Level | | Second Cycle (Master's Degree) | | | |
| ECTS Credit | 8 | Workload | 203 (<i>Hours</i>) | Theory | 2 | Practice | 2 | Laboratory | 0 |
| Objectives of the Course | | Mycorrhizae to give information about plant health relations | | | | | | | |
| Course Content | | Mycorrhizal fungi are classified and classified. The structure and functions of mycorrhizal fungi and the effects of cultural applications on the development of mycorrhizal fungi are evaluated. The mechanism of the relationship between plant-fungus, its effects on plant growth, mycorrhizal plant health relations, the role of mycorrhizal fungi in biological control and their effects against some plant pathogens are studied. Inoculum production and inoculation techniques will be examined together with practical applications and commercial applications. | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Demonstration, Discussion, Individual Study | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 60 |

Recommended or Required Reading

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| 1 | Smith and Read,2008. Mycorrhizal Symbiosis, Academic Press is an imprint of Elsevier |
| 2 | Declerck, S., D.S.Strullu, J.A. Fortin, 2005. In Vitro Culture o Mycorrhizas. Springer-Verlag Berlin Heidelberg |
| 3 | Siddiqui, Z.A., M.S.Akhtar, K. Futai, 2008. Mycorrhizae: Sustainable Agriculture And Forestry Springer Science + Business Media B.V. |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|---|
| 1 | Theoretical | Introduction |
| 2 | Theoretical | Mycorrhizal Symbiosis, In Vitro Culture o Mycorrhizas. Sustainable Agriculture And Forestry |
| 3 | Theoretical | x |
| 4 | Theoretical | a |
| 5 | Theoretical | a |
| 6 | Theoretical | a |
| 7 | Theoretical | a |
| 8 | Theoretical | a |
| 9 | Theoretical | a |
| 10 | Intermediate Exam | a |
| 11 | Theoretical | a |
| 12 | Theoretical | a |
| 13 | Theoretical | a |
| 14 | Theoretical | a |
| 15 | Theoretical | a |
| 16 | Final Exam | a |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 1 | 2 | 42 |
| Lecture - Practice | 14 | 1 | 2 | 42 |
| Assignment | 1 | 20 | 2 | 22 |
| Midterm Examination | 1 | 40 | 1 | 41 |



| | | | | |
|--|---|----|---|-----|
| Final Examination | 1 | 55 | 1 | 56 |
| Total Workload (Hours) | | | | 203 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 8 |
| *25 hour workload is accepted as 1 ECTS | | | | |

Learning Outcomes

| | |
|---|--|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |

Programme Outcomes (Plant Protection Master)

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|---|---|
| 1 | To develop knowledge and abilities that gained during undergraduate education |
| 2 | To gain ability to search and pursue current literature |
| 3 | To gain ability to plan and write projects that help solving problems in field of study. |
| 4 | To gain ability to conduct research, analyze data, evaluate research results scientifically and prepare reports and thesis writing. |
| 5 | Students will be able to learn and apply the laboratory test and analysis methods |
| 6 | To recognize occupational and ethical responsibility |

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 | 3 | 3 | 3 | 5 | 4 |
| P2 | 2 | 4 | 3 | 4 | 5 |
| P3 | 3 | 3 | 3 | 5 | 3 |
| P4 | 3 | 3 | 4 | 4 | 4 |
| P5 | 3 | 4 | 3 | 5 | 4 |
| P6 | 2 | 3 | 3 | 4 | 5 |

