# AYDIN ADNAN MENDERES UNIVERSITY
# COURSE INFORMATION FORM

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|---|---|---|---|---|---|---|---|---|---|
| Course Title | Behaviour of Insects | | | | | | | | |
| Course Code | ZBK619 | | Couse Level | | Third Cycle (Doctorate Degree) | | | | |
| ECTS Credit | 7 | Workload | 175 *(Hours)* | Theory | 3 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | To learn of biological and genetical principles of insect behaviour, programs, coordination, meeting, feeding, chemical commnication, visual communication, mechanical communication and protection, breeding of insect behaviour patterns. | | | | | | | | |
| Course Content | Introduction to behavioral science, sense organs in insects, behaviour patterns of insects, ınstinctual and complex behaviours of insects, behaviour periodicity of insects, ımhabiting in insects, ımmigration types of insects, tending activities in insects, communication of insects, alarm and assembly activities in social insects, host selection in social insects. | | | | | | | | |
| Work Placement | N/A | | | | | | | | |
| Planned Learning Activities and Teaching Methods | Explanation (Presentation), 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 | |
|---|---|
| 1 | Atkins, M.D., 1980. Introduction to Insect Behavior.San Diego State University, New York, USA |
| 2 | Borror, D.J., D. M. Long, C.A. Triplehornt, 1981.Study of Insect, the Ohio State Univ. Press. USA. |
| 3 | Demirsoy, A.,1990. Yaşamın Temel Kuralları. Hacettepe Üniversitesi, Biyoloji Bölümü, Ankara. |
| 4 | Geldiay, R., Kocataş, A., 1975. Genel Ekoloji. Ege Üniversitesi Fen Fakültesi, İzmir |

| Week | Weekly Detailed Course Contents | |
|---|---|---|
| 1 | Theoretical | Introduction to behavioral science |
| 2 | Theoretical | Sense organs in insects |
| 3 | Theoretical | Sense organs in insects |
| 4 | Theoretical | Behaviour patterns of insects |
| 5 | Theoretical | Instinctual and complex behaviours of insects |
| 6 | Theoretical | Behaviour periodicity of insects |
| 7 | Theoretical | Imhabiting in insects |
| 8 | Intermediate Exam | Midterm Exam |
| 9 | Theoretical | Immigration types of insects |
| 10 | Theoretical | Tending activities in insects |
| 11 | Theoretical | Communication of insects |
| 12 | Theoretical | Communication of insects |
| 13 | Theoretical | Alarm and assembly activities in social insects |
| 14 | Theoretical | Alarm and assembly activities in social insects |
| 15 | Theoretical | Host selection in social insects |
| 16 | Final Exam | Final exam |

| Workload Calculation | | | | |
|---|---|---|---|---|
| Activity | Quantity | Preparation | Duration | Total Workload |
| Lecture - Theory | 14 | 1 | 3 | 56 |
| Assignment | 10 | 8 | 1 | 90 |
| Reading | 11 | 0 | 1 | 11 |
| Midterm Examination | 1 | 8 | 1 | 9 |

| | | | | |
|---|---|---|---|---|
| Final Examination | 1 | 8 | 1 | 9 |
| | | | Total Workload (Hours) | 175 |
| | | | [Total Workload (Hours) / 25*] = **ECTS** | 7 |
| **25 hour workload is accepted as 1 ECTS* | | | | |

| **Learning Outcomes** | |
|---|---|
| 1 | To learn sense organs of insects |
| 2 | To learn different behavioral patterns of insects |
| 3 | To understand of biological and genetical principles of insect behaviour |
| 4 | |
| 5 | |

| **Programme Outcomes** *(Plant Protection Doctorate)* | |
|---|---|
| 1 | Students improve their knowledge and skill previously gained during first cycle and second cycle programs and become a specialist their own discipline |
| 2 | Students gain knowledge and experience for using new techniques and equipments in their own discipline. |
| 3 | Students gain ability to plan and conduct scientific projects in their own discipline by using current knowledge and techniques, and to collect and analyze data and make inference on the results . |
| 4 | Students gain ability to write scientific articles and prepare them for publications and to make oral or poster presentations in scientific meetings. |
| 5 | Students gain ability to review scientific articles and projects relevant to their own discipline. |
| 6 | Students gain experiences how to get effective position in national and international projects. |
| 7 | Students gain experience for participating in and organizing scientific meetings. |

**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 | 4 | 4 | 4 | 4 | 4 |
| P3 | 4 | 4 | 4 | 4 | 4 |
| P4 | 3 | 3 | 3 | 3 | 3 |
| P5 | 3 | 3 | 3 | 3 | 3 |
| P6 | 4 | 4 | 4 | 4 | 4 |
| P7 | 4 | 4 | 4 | 4 | 4 |