



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

|  |   |   |                      |   |   |                                 |   |            |   |
|--|---|---|----------------------|---|---|---------------------------------|---|------------|---|
| Course Title                                     |   | General Botany  |                      |   |   |                                 |   |            |   |
| Course Code                                      |   | BYL114  |                      | Course Level  |   | First Cycle (Bachelor's Degree) |   |            |   |
| ECTS Credit                                      | 4 | Workload  | 100 ( <i>Hours</i> ) | Theory  | 2 | Practice                        | 2 | Laboratory | 0 |
| Objectives of the Course                         |   | To gain a clear perspective to students about the contents and the basic principles of botany.  |                      |   |   |                                 |   |            |   |
| Course Content                                   |   | Basic Botanical terms, cell structure, cell division, plant tissues, organ science, stem morphology and anatomy, morphology and anatomy of the body, leaf morphology and anatomy, flower morphology, anatomy and reproduction of plants and plant systematics |                      |   |   |                                 |   |            |   |
| Work Placement                                   |   | N/A   |                      |   |   |                                 |   |            |   |
| Planned Learning Activities and Teaching Methods |   |   |                      | Explanation (Presentation), Demonstration, Discussion, Case Study |   |                                 |   |            |   |
| Name of Lecturer(s)                              |   | Prof. Özkan EREN  |                      |   |   |                                 |   |            |   |

### Assessment Methods and Criteria

| Method              | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1        | 40             |
| Final Examination   | 1        | 70             |

### Recommended or Required Reading

|   |  |
|---|--|
| 1 | BOZCUK S. 2009. Genel Botanik. Hatipoğlu yayınları, Ankara.                            |
| 2 | Campbell, R. 2008. Biyoloji (Ed.Ertunç G. Ve ark.),Palme Yayıncılık, Ankara.           |
| 3 | Özörgücü B. 1993. Bitki Morfolojisi ve Anatomisine Giriş. Baskı 55. Ege Üni. Basımevi. |

| Week | Weekly Detailed Course Contents |   |
|------|---------------------------------|---|
| 1    | Theoretical                     | Learning the basic botanical terms                        |
| 2    | Theoretical                     | The basic structure, organelles and functions of the cell |
| 3    | Theoretical                     | Tissue science, plant tissues, meristem tissues           |
| 4    | Theoretical                     | Tissue science, plant tissues, permanent tissues          |
| 5    | Theoretical                     | Organ science, root and root metamorphosis                |
| 6    | Theoretical                     | Organ science, stem and stem metamorphosis                |
| 7    | Theoretical                     | Organ science, leaf and leaf metamorphosis                |
| 8    | Theoretical                     | Morphology and anatomy of Flower                          |
| 9    | Theoretical                     | Reproduction of plants                                    |
| 10   | Theoretical                     | Fruits, seeds, propagation.                               |
| 11   | Intermediate Exam               | Midterm exam  |
| 12   | Theoretical                     | Plant systematics   |
| 13   | Theoretical                     | Evolution of plants                                       |
| 14   | Theoretical                     | Introducing kingdom of plants                             |
| 15   | Final Exam                      | Final exam  |

### Workload Calculation

| Activity                              | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory                      | 13       | 0           | 3        | 39             |
| Assignment                            | 13       | 0           | 1        | 13             |
| Land Work                             | 8        | 0           | 4        | 32             |
| Individual Work                       | 14       | 0           | 1        | 14             |
| Midterm Examination                   | 1        | 0           | 1        | 1              |
| Final Examination                     | 1        | 0           | 1        | 1              |
| Total Workload (Hours)                |          |             |          | 100            |
| [Total Workload (Hours) / 25*] = ECTS |          |             |          | 4              |

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

|   |  |
|---|--|
| 1 | To understand the basic botanical terms.   |
| 2 | To understand plant cell structure, functions and organelles.                          |
| 3 | To understand meiosis and mitosis.   |
| 4 | To understand structure and functions of plant organs (roots, stems, leaves, flowers). |
| 5 | To understand flowers and sexual reproduction of plants.                               |
| 6 | To understand diversity and classification of plants.                                  |

**Programme Outcomes (Horticulture)**

|    |   |
|----|---|
| 1  | Ability to examine agricultural problems under the light of basic science, mathematics, and agriculture knowledge   |
| 2  | Ability to plan and apply in different agricultural systems in horticultural crop plants  |
| 3  | To constitute and realize breeding programmes according to market demands   |
| 4  | Ability to propagate any kinds of stock materials in horticultural crop plants  |
| 5  | Ability of transfer of modern technologies to production  |
| 6  | Ability to have a consciousness of quality in production, storage, and evaluation in horticultural crop plants (To measure, evaluate, and manage different quality parameters)                      |
| 7  | To think analytically of protecting, providing transfer to future, and having responsibility to environment of all plant materials belong to horticultural crop plants area                         |
| 8  | Ability to search, think analytically, reach to knowledge, and obtain solution for solving of agricultural problems (Project, homework, thesis, summer training)                                    |
| 9  | Ability to be aware of agricultural problems, to follow them, and to communicate own ideas of these subjects by verbal and written ways (Turkish, social course)                                    |
| 10 | To be able to perform in a teamwork   |
| 11 | Ability to work independently, give decision, and Express own thoughts by occupational-ethic values verbal and written ways in horticultural crop plants  |
| 12 | Ability to think creatively, innovatively, and analytically, to comprehend the need of lifelong learning, be a part of a related subjects in a web of communication, and to develop by social means |

**Contribution of Learning Outcomes to Programme Outcomes** 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

|    | L1 | L2 | L3 | L4 | L5 | L6 |
|----|----|----|----|----|----|----|
| P3 | 5  | 5  | 5  | 5  | 5  | 5  |
| P6 | 5  | 5  | 5  | 5  | 5  | 5  |
| P7 | 5  | 5  | 5  | 5  | 5  | 5  |

