| Course Information | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Course Code** | **T** | **P** | **L** | **C** | **ECTS** | **Type** C/E | **Language** TR/ENG etc. | **Year/Semester** |
| BİO2016 | **2** | **0** | **0** | **2** | **3** | **C** | **TR** | **2 /SPRING** |
| **Course Name (**Turkish**)** | **Peyzaj Uygulamaları** | | | | | | | |
| **Course Name (**English**)** | **Landscape Applications** | | | | | | | |

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| **Unit/Program** | Physics Department/Undergraduate Program |
| **Course Prerequisite** | no |
| **Course Objectives** | To provide information about Garden / Plant Care and Landscaping Applications. |
| **Course Outline** | Within the scope of this course; plants and landscaping applications, living room and garden landscaping; Plant Species Used for Landscaping; pruning of plants; Production and propagation in plants; staggering and repotting; planting and caring for seedlings; Greenhouse. Establishment of greenhouses. Factors affecting growing plants in greenhouses; plant diseases and pests; Protecting Plants Against Diseases. |
| **Textbook/ Material / Resources** | 1. KONEMANN, 1999. BOTANICA, The Illustrated A-Z of over 10000 garden plants and how to cultivate them. Pg:1020, Random House Australia, ISBN:3-8290-3068-1.<br>2. TOKUR, S., 2000 T.C. Osmangazi University Faculty of Arts and Sciences Garden Care and Greenhouse I-II Papers, ESKISEHIR<br>3. URGENCH, S., 1992. Tree and Ornamental Plants, Nursery and Cultivation Technique, İ.Ü. Printing House and Film Center, ISTANBUL.<br>4. TUZLACI E., Horticulture and Urban Flowers of Turkey. İşbank Publications. |
| **Internship Status** | |

**Course Precedents**

| **University Name** | **Program Name** | **Course Name** | **T-P-L-C; ECTS** | **Type** |
|---|---|---|---|---|
| **Uludag University** | **Department of Parks and Horticulture** | **Landscaping Applications** | **2-2-0 2, 4** | **C** |
| **Trakya University** | **Landscape and Ornamental Plants Program** | **Landscape and Ornamental Plants Management** | **3-0-0-3, 4** | **C** |
| **Istanbul Cerrahpasa University** | **Landscaping and Ornamental Plants Cultivation** | **Plant Ecology** | **2-0-0-2, 2** | **C** |

| **The instructor who proposed the course (** Title, Name and Surname) | *Signature* |
|---|---|
| **Prof. Eyüp BAĞCI, MD** | |
| **Instructors who can teach the course** (Title, Name and Surname) | *Signature* |
| **Prof. Eyüp BAĞCI, MD** | |
| | |

**Academic justification for the opening of the course?** (The effect of course outcomes on program outcomes, etc.)

1. To provide knowledge and skills about garden maintenance and landscaping applications to students who are trained in biology and other branches.
2. Students; Definitions of gardening and greenhouse cultivation,
3. To be able to give detailed information about the history of horticulture and greenhouse cultivation
4. Learning the points to be considered when setting up a garden and greenhouse,

| |
|---|
| 5. To have information about the geography, climatic characteristics and soil conditions of the region where the garden or greenhouse will be established and to discuss the characteristics of the place where the garden or greenhouse will be established under these conditions,<br>6. To comprehend the production methods and gardening studies in plants<br>7. To ensure that they are aware of modern techniques in gardening and landscaping applications. |
| **Brief explanation of the course** (theoretical lecture, applications, laboratory, studio, off-campus activity, using software, etc.) |
| The course will consist of theory and practice. Theoretical information on garden cultivation, plant care, landscaping and applications, greenhouse cultivation will be carried out, and then application studies or on-site inspection studies will be carried out. |

| **External Stakeholder Opinions About** the Course (It is expected that the opinions to be obtained from the business world that will employ your graduates or from real or legal persons outside the University who have expertise on the subject of the course will be specified. Proof documents must be attached to this form.) | |
|---|---|
| **Stakeholder Name** | **Opinion** (It should be given as a summary, it should not exceed two lines.) |
| Provincial Directorate of Agriculture and Forestry | Model Agricultural practices in the region |
| Wildlife Conservation and National Parks Branch Directorate | Current studies on wildlife |
| Elazığ Municipality Greenhouse and Private greenhouses | Horticulture and good model practices |

| **Weekly Course Content Distribution** | | |
|---|---|---|
| **Week** | **Theoretical** | **Application/Laboratory** |
| **1** | To give information about garden maintenance and landscaping applications | Application |
| **2** | Watering, fertilizing and pruning methods in plants. | |
| **3** | Methods of watering, fertilizing and pruning in plants | Application |
| **4** | Production methods in plants (Seed production) | |
| **5** | Production methods in plants ( Vegetative production). | Application |
| **6** | Production methods in plants ( Vegetative production). | |
| **7** | Fertilization in plants and their varieties | |
| **8** | Fertilization in plants and their varieties | |
| **9** | Midterm Exam | |
| **10** | The main pests that appear on ornamental plants. | |
| **11** | Plant diseases | |
| **12** | Staggering and repotting. | |
| **13** | Greenhouse floriculture | Application |

| | | |
|---|---|---|
| **14** | Economic Importance of Greenhouse Cultivation and types of applications | |
| **15** | General Exam | |

| **Assessment** | | | |
|---|---|---|---|
| **Evaluation Criteria** | **Activity** | **Custom** | **Contribution to Success Grade (%)** |
| | Midterm Exams | 1 | 40 |
| | Quizzes | | |
| | Assignments | | |
| | Projects | | |
| | Term Paper | | |
| | Laboratory | | |
| | Other | | |
| | Final Exam | 1 | 60 |
| | | **Sum:** | 100 |
| **Content Design and Subject Weight (%)** | Mathematics and Basic Sciences | 50 | |
| | Engineering Sciences | 10 | |
| | Social Sciences | 10 | |
| | Health Sciences | | |
| | Educational Sciences | 10 | |
| | Culture and Art Sciences | 10 | |
| | Design Information | 10 | |

| **Workload (ECTS) Calculation** | | | |
|---|---|---|---|
| **Events** | **Number** | **Duration (Hours)** | **Total workload (Hours)** |
| Fieldwork | 2 | 2 | 4 |
| Midterm Exam Application | 1 | 1 | 1 |
| Self-Study (including pre-class and exam preparation) | | | |
| Make-up Exam | 1 | 1 | 1 |
| Experiment and Observation | | | |
| Class Participation (Theory) | 14 | 2 | 28 |
| Homework | | | |
| Final Exam Practice | 1 | 1 | 1 |
| Laboratory | | | |
| Article Review | | | |
| Writing an Article | | | |
| Reading | | | |
| Case Study | | | |
| Performance | | | |
| Problem Solution | | | |
| Project Preparation | | | |
| Project Submission | | | |
| Submitting Reports | | | |
| Role/Drama Work | | | |
| Seminar | | | |
| Argument | | | |
| Application/Practice | 10 | 4 | 40 |
| Other | | | |
| | | **TOTAL WORKLOAD:** | **75** |

| **ECTS CREDİTS OF THE COURSE:** *(The number obtained as a result of Total Workload/25 is calculated by rounding to the whole number.)* | **3** |
|---|---|

| **The Relationship Between Course Learning Outcomes and Program Outcomes** | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Learning Outcomes (LO)** *(Course Outcomes)* / **Program Outcomes (PO)** | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| **1** | To be able to comprehend pruning, fertilization and irriga techniques | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **3** | **3** | **5** | **1** | |
| **2** | Understanding production methods in plants and comparison with other methods. | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **5** | **3** | **5** | **1** | |
| **3** | To be able to learn the historical development of greenhouse cultivation. | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **3** | **3** | **5** | **1** | |
| **4** | To be able to comprehend the factors affecting plant cultivation in greenhouses. | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **3** | **3** | **5** | **1** | |
| **5** | To be able to learn plant diseases, pests of plants and methods of protecting them against diseases | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **5** | **3** | **5** | **1** | |
| **6** | To have knowledge and skills about landscaping and its applications | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **3** | **3** | **5** | **1** | |

**Organizer:** Prof. Dr. Eyüp BAĞCI

**Preparation Date:** 20.05.2024