



**AYDIN ADNAN MENDERES UNIVERSITY
SULTANHISAR VOCATIONAL SCHOOL
PLANT AND ANIMAL PRODUCTION
SEEDLING PRODUCTION
COURSE INFORMATION FORM**

| | | | | | | | | | |
|--|---|----------|------------|--------------|---|----------------------------------|---|------------|---|
| Course Title | Manufacturing Techniques | | | | | | | | |
| Course Code | FY115 | | | Course Level | | Short Cycle (Associate's Degree) | | | |
| ECTS Credit | 3 | Workload | 75 (Hours) | Theory | 2 | Practice | 1 | Laboratory | 0 |
| Objectives of the Course | Having knowledge on the produce techniques in fruits, vegetables and ornamentals | | | | | | | | |
| Course Content | Vegetative and generative production techniques used the propagation of fruit, vegetable and landscape and ornamental plants and important tree species | | | | | | | | |
| Work Placement | N/A | | | | | | | | |
| Planned Learning Activities and Teaching Methods | Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study, Problem Solving | | | | | | | | |
| 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 | 1. Öğretim elemanı ders notları |
| 2 | 2. Prof.Dr.Sabit AĞAOĞLU ve ark., Genel Bahçe Tarımı, Ankara Üniversitesi yayınları |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical | Classification of production techniques of horticultural plants, importance and purposes of reproduction techniques |
| 2 | Theoretical | The reproduction building and growing material of horticultural plants |
| 3 | Theoretical | Seed structure, seed characteristics, seed production, seed conservation |
| 4 | Theoretical | Germination in seeds and stimulating applications of germination |
| 5 | Theoretical | Methods of vegetative propagation, grafting, goals of grafting, success limits of grafting and incompatibilities in grafting |
| 6 | Theoretical | Nurseries and the grafting types |
| 7 | Practice | The grafting vegetable seedling production |
| 8 | Intermediate Exam | Midterm exam |
| 9 | Theoretical | Propagation with seedling |
| 10 | Theoretical | Propagation with dipping |
| 11 | Theoretical | Propagation with customized or modified stem and roots |
| 12 | Theoretical | Propagation with customized or modified stem and roots |
| 13 | Theoretical | Propagation with apomictic seed |
| 14 | Theoretical | In vitro culture |
| 15 | Theoretical | In vitro culture |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Lecture - Practice | 14 | 0 | 1 | 14 |
| Individual Work | 2 | 6 | 0 | 12 |
| Midterm Examination | 1 | 9 | 1 | 10 |
| Final Examination | 1 | 10 | 1 | 11 |
| Total Workload (Hours) | | | | 75 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 3 |

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

| | |
|---|---|
| 1 | Being able to prepare the propagation materials of horticultural plants |
| 2 | Being able to produce with seeds in horticultural plants |
| 3 | Being able to produce with cutting in horticultural plants |
| 4 | Being able to produce with grafting in horticultural plants |
| 5 | Being able to produce with depping in horticultural plants |
| 6 | Being able to produce with division and separate in horticultural plants |
| 7 | Being able to produce with in vitro culture technique in horticultural plants |

Programme Outcomes (Seedling Production)

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|----|---|
| 1 | Having knowledge of physiology and morphology characteristics, growth, development and biochemical events occurred in fruits, vegetables and ornamentals plants |
| 2 | Having knowledge of soil, climate and irrigation conditions grown fruits, vegetables and ornamentals plants |
| 3 | Having knowledge of identification, classification and the use areas of fruits, vegetables and ornamentals plants |
| 4 | Having practical and theoretical knowledge of production techniques of fruits, vegetables and ornamentals plants |
| 5 | Having ability to identify and to maintain diseases and pests of fruits, vegetables and ornamentals plants |
| 6 | Having knowledge of marketing techniques, standards, contributions to the economy of fruits, vegetables and ornamentals plants, legal issues |
| 7 | Having knowledge of facilities and builds grown fruits, vegetables and ornamentals plants, and tools and materials used. |
| 8 | Having ability to use effective own language and having knowledge of language in order to communicate own colleagues and own customers, |
| 9 | Having knowledge of Atatürk Principle and Revolutions and, ability to assimilate Atatürk Principle and Revolutions |
| 10 | Having an enough foreign language to able to follow new development in relation with nursery production |

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 | L7 |
|----|----|----|----|----|----|----|----|
| P1 | 2 | 2 | 2 | 1 | | 2 | 3 |
| P2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| P3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| P4 | 3 | 5 | 4 | 3 | 4 | 5 | 4 |
| P5 | 2 | | 2 | 2 | | | |
| P7 | 4 | 4 | 4 | 3 | 4 | 4 | 3 |

