



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

| | | | | | | | | | |
|--|---|---|------------|--|---|----------------------------------|---|------------|---|
| Course Title | | Soil Knowledge | | | | | | | |
| Course Code | | FY107 | | Couse Level | | Short Cycle (Associate's Degree) | | | |
| ECTS Credit | 3 | Workload | 75 (Hours) | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | Soil formation, physical, chemical and biological properties of soil, classification of soils, conservation, sustainability and aims to give students information about the improvent of soils | | | | | | | |
| Course Content | | Soil formation, soil physical, chemical and biological properties, soil classification, protection, information is given to students about sustainability and improvement of lands | | | | | | | |
| Work Placement | | Students must have to complete their internship within the required time and properties. The required rules are describes at the Adnan Menderes University, Sultanhisar Vocational School, Student Internship Instructions. | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Individual Study | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

Assessment Methods and Criteria

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

Recommended or Required Reading

| | |
|---|------------------------|
| 1 | Lecturers Lesson Notes |
|---|------------------------|

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|---|
| 1 | Theoretical | Introduction, definition of soil and its composition |
| | Preparation Work | Lecture material |
| 2 | Theoretical | The main substance of the earth |
| 3 | Theoretical | Decomposition and composition processes in formation of soils |
| 4 | Theoretical | Processes in soils |
| 5 | Theoretical | Soil profile |
| 6 | Theoretical | Classification of soils |
| | Preparation Work | Lecture material |
| 7 | Theoretical | Classification of soils |
| | Preparation Work | Lecture material |
| 8 | Intermediate Exam | Midterm |
| 9 | Theoretical | The physical properties of mineral soils |
| 10 | Theoretical | Plants nutrients in mineral soils |
| 11 | Theoretical | Soil colloids |
| 12 | Theoretical | Soil reaction |
| 13 | Theoretical | Soil water- relationships |
| 14 | Theoretical | Evaporation, loss of water from soils |
| 15 | Theoretical | Living creatures in soils |
| 16 | Final Exam | Final Exam |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Laboratory | 5 | 5 | 0 | 25 |
| Midterm Examination | 1 | 9 | 1 | 10 |



| | | | | |
|---|---|----|---|----|
| Final Examination | 1 | 11 | 1 | 12 |
| Total Workload (Hours) | | | | 75 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 3 |
| *25 hour workload is accepted as 1 ECTS | | | | |

Learning Outcomes

| | |
|---|--|
| 1 | Describes soil and soil types |
| 2 | Knows soil formation |
| 3 | Describes physical, chemical and biological properties of soil |
| 4 | Having knowledge of conservation and sustainability of soil |
| 5 | Aims to improve soil |

Programme Outcomes (Medical and Aromatic Plants)

| | |
|----|---|
| 1 | Having the recognition, classification and the use areas knowledge of medical and aromatic plants |
| 2 | Having practical and technical knowledge about cultivation and production of medical and aromatic plants |
| 3 | Having knowledge of morphology, anatomy, cytology, physiology and biochemical structures of medical and aromatic plants |
| 4 | Having knowledge of importance of soil conditions to grow medical and aromatic plants |
| 5 | Having information and the ability to use materials related with basic math and basic chemistry founded on qualifications gained in secondary education |
| 6 | Having ability to use effective own language and having knowledge of foreign language in order to communicate own colleagues and own customers |
| 7 | Having ability to collect medical and aromatic plants, having knowledge of seed technology, drying and conservation of these plants |
| 8 | Having ability to identify and to fight diseases and pests of medical and aromatic plants |
| 9 | Having knowledge of all Agricultural activities |
| 10 | Having knowledge of Atatürk Principle and Revolutions and to assimilate Atatürk Principle and Revolutions |
| 11 | Having consciousness of quality |
| 12 | Having knowledge and accumulation of investigative and evaluation |
| 13 | Ability to work as an individual capable of independent decision-making ideas verbally and in writing, stating the figure to communicate in a clear and concise |
| 14 | Ability to identify plants used for medical purposes and to obtain mixtures from drugs acquired these plants |
| 15 | Having skill and knowledge of marketing techniques medical and aromatic plants |

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

| | L1 | L2 | L3 | L4 | L5 |
|----|----|----|----|----|----|
| P4 | 5 | 5 | 5 | 5 | 5 |

