

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

| Course Title | purse Title Laboratory Technics | | | | | | |
|---|---|----------|----------------|-----------------|-------------|------------|---|
| Course Code | TAP103 Couse Level Short Cycle (Associate's Degree) | | Degree) | | | | |
| ECTS Credit 4 | Workload 100 (Hours |) Theory | 1 | Practice | 0 | Laboratory | 3 |
| Objectives of the Course Having knowledge of workrules in thelaboratory, theuse of laboratorymaterials, quick analysistechniquesandlaboratoryaccreditation,tolearnsensory,physical, chemicalandmicrobiologicalanalysistechniques | | | | | | | |
| Course Content Definition andclassification of laboratory, qualificationrequirementsforthelaboratory, intendeduse, therulesneedto be considered in laboratorystudies, accidents and occupational safety in the laboratory, materials, tools and functions of these in laboratory, and working methods, general methods of analysis, solutions and preparation of solutions, acid-baseconcepts, methods of plantanalysis, some basicanalysis of foodstuffs, microbiology laboratories, and the general rules, and preparation of growth medium, heattreatment | | | | | | | |
| Work Placement | N/A | | | | | | |
| Planned Learning Activities | and Teaching Methods | Explana | tion (Presenta | tion), Experime | ent, Demons | stration | |
| Name of Lecturer(s) | | | | | | | |

| Assessment Methods and Criteria | | | | | |
|---------------------------------|----------|----------------|--|--|--|
| Method | Quantity | Percentage (%) | | | |
| Midterm Examination | 1 | 40 | | | |
| Final Examination | 1 | 70 | | | |

Recommended or Required Reading

1 Course notes of Lecturers

| Week | Weekly Detailed Cour | se Contents | | |
|------|-----------------------------|---|--|--|
| 1 | Theoretical | Laboratoryworkrulesandpointto be consideredhazardouschemicals, and, firstaid in laboratoryaccidents | | |
| 2 | Theoretical | Thestructuralandphysicalproperties of thelaboratory, maintenance, cleaning, supplies, instrumentsandequipment of general laboratory | | |
| 3 | Theoretical | Preparation of solution (Molar, Normal,% concentration) | | |
| 4 | Theoretical | Chemical analysis techniques | | |
| 5 | Theoretical | Chemical analysis techniques | | |
| 6 | Theoretical | Spectrophotometricmethods, ELISA andotherserologicalmethods, instrumental analytical techniques | | |
| 7 | Theoretical | Introduction to microbiology laboratory | | |
| 8 | Intermediate Exam | Midterm examination | | |
| 9 | Theoretical | Sensory analysis | | |
| 10 | Theoretical | Physical analysis techniques | | |
| 11 | Theoretical | Physical analysis techniques | | |
| 12 | Theoretical | Microbiologic alanalysis techniques | | |
| 13 | Theoretical | Microbiologic Alanalysis techniques | | |
| 14 | Theoretical | Rapid microbiological analysis techniques | | |
| 15 | Theoretical | Laboratory Accreditation | | |

| Workload Calculation | | | | | |
|----------------------|----------|-------------|----------|----------------|--|
| Activity | Quantity | Preparation | Duration | Total Workload | |
| Lecture - Theory | 14 | 0 | 2 | 28 | |
| Lecture - Practice | 14 | 0 | 2 | 28 | |
| Midterm Examination | 1 | 21 | 1 | 22 | |



| Final Examination | 1 | | 21 | 1 | 22 |
|--|----------------------------|--|----|---|----|
| | Total Workload (Hours) 100 | | | | |
| [Total Workload (Hours) / 25*] = ECTS 4 | | | | | 4 |
| *25 hour workload is accepted as 1 ECTS | | | | | |

| Learn | ing Outcomes | |
|-------|--|--|
| 1 | Recognizes and categorizes laboratories | |
| 2 | Knows the rules to be considered in laboratory studies | |
| 3 | Knowledgeable about laboratory security and accidents | |
| 4 | Applies general analysis methods | |
| 5 | Prepare the solution | |
| 6 | Applies heat treatment | |

| Progr | amme Outcomes (Medical and Aromatic Plants) |
|-------|---|
| 1 | Understands the importance of medicinal and aromatic plants in the World and Turkey |
| 2 | Learn about the general characteristics of medicinal and aromatic plants. Learn the important issues in cultivation and can apply. |
| 3 | Learn about usage technologies about medicinal and aromatic plants and can apply. |
| 4 | Inform of producers of medicinal and aromatic plant species in offering, material supply, production process, marketing matter. |
| 5 | Know and follow the laws and regulations pertaining to the profession. |
| 6 | Learns morphological and anatomical structures of plants. |
| 7 | Learns to identify medicinal and aromatic plants. |
| 8 | To be able to behave sensitively towards environmental issues at national and global levels and to be able to interpret solution-oriented information; to be able to be an environmentally conscious and entrepreneurial individual |
| 9 | To be able to follow, evaluate and implement new developments and applications in the cultivation of medicinal and aromatic plants independently or as a team. |
| | |

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

| | L1 | L2 | L3 | L4 |
|----|----|----|----|----|
| P6 | 4 | 4 | 4 | 4 |
| P7 | 4 | 4 | 4 | 4 |
| P8 | 4 | 4 | 4 | 4 |
| P9 | 4 | 4 | 4 | 4 |

