



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|---|---|------------|---|---|----------------------------------|---|------------|---|
| Course Title | | Technical Textiles | | | | | | | |
| Course Code | | TT113 | | Course Level | | Short Cycle (Associate's Degree) | | | |
| ECTS Credit | 2 | Workload | 50 (Hours) | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | Definition, development and usage of technical textiles. | | | | | | | |
| Course Content | | Care / Hygiene Products: Transport Technical Textiles Protective Technical Textiles Building and Construction Technical Textiles Industrial Technical Textiles geotextiles Agricultural Technical Texture production methods and usage areas. | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Project Based Study | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

Assessment Methods and Criteria

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

Recommended or Required Reading

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| 1 | Horrocks A.R., Anand S., "Handbook of Technical Textiles", The Textile Institute, 2004 |
| 2 | Akalın M. "Teknik Tekstiller" Birsen Yayınevi 2010 |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical | Classification of technical textiles and market share |
| 2 | Theoretical | Classification of technical textiles and market share |
| 3 | Theoretical | Technical textiles used in the field of health |
| 4 | Theoretical | Technical drillings used in geological area |
| 5 | Theoretical | Technical textiles used in construction and construction |
| 6 | Theoretical | Technical textiles used in transportation |
| 7 | Theoretical | Technical textiles for industrial use |
| 8 | Intermediate Exam | Midterm, (evaluation of the assignments) |
| 9 | Theoretical | Technical textiles for protection |
| 10 | Theoretical | Technical textiles used in packaging |
| 11 | Theoretical | Technical textiles used in agriculture |
| 12 | Theoretical | Technical textiles for sports and leisure |
| 13 | Theoretical | Technical textiles used as garments and accessories |
| 14 | Theoretical | Environmentally friendly technical textiles and textile composites |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Midterm Examination | 1 | 10 | 1 | 11 |
| Final Examination | 1 | 10 | 1 | 11 |
| Total Workload (Hours) | | | | 50 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 2 |

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

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|---|---|
| 1 | To give information about the concept and scope of technical textiles, to learn the basic application areas of technical textiles |
| 2 | To have knowledge about raw materials and production techniques used in technical textile production. |
| 3 | To have knowledge about applications of technical textiles |
| 4 | To have information about the location of technical textiles in Turkey |
| 5 | To have knowledge about the position of technical textiles in the world |

Programme Outcomes (*Computer - Aided Design and Animation*)

| | |
|----|---|
| 1 | Using the basic knowledge and skills acquired in the field, interpret and evaluate data, identify problems, to analyze, to have the ability to develop evidence-based solutions. |
| 2 | To select and effectively use modern techniques that are for applications relevant to the field |
| 3 | Gaining the application skill by examining the relevant processes in industrial and service sector |
| 4 | To find solution when encounters unforeseen situations in the field, to gain the ability to be able to take responsibility in a team or make individual research. |
| 5 | To gain the awareness of the need for lifelong learning, continuous self-renewal monitoring and awareness of developments in science and technology |
| 6 | To gain the ability to use computer software and hardware required by the basic level of the field. |
| 7 | To be conscious about occupational safety, occupational health, environmental protection and quality. |
| 8 | Effective communication and follow the innovations in the field. |
| 9 | In mathematics, science and engineering directed to his/her field of basic theoretical and practical knowledge. |
| 10 | Having the planning skills related to Computer Aided Design and Animation program to meet the needs of the sector. |
| 11 | Gaining skills on technical drawing, computer-aided drafting, design using simulation programs in the field of making and using a variety of software systems and components to choose, to calculate the basic sizing, draw plans and projects. |
| 12 | Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences. |
| 13 | Ability to plan a career in their own profession. |

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

| | L1 | L2 | L4 | L5 |
|----|----|----|----|----|
| P5 | 4 | 3 | 3 | 3 |

