



## Syllabus

### TXE6425: Elective Course (Standards and Specifications)



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**Class Meeting:** Monday 11:30 AM– 1:00 PM & Tuesday 1:00- 2:30 PM; Room: B3013 (or computer lab)

**Level:** Undergraduate (Forth year in Textile Engineering)

**Objectives:**

- Understanding the importance of national and international standards
- Developing of testing standards and writing of specifications
- Realizing the relationship between standards and quality
- Implementing the quality management systems (QMS)

**Prerequisites:** None

**Textbook:**

- Collected materials by the instructor.

**Reference books:**

- B. Purushothama, *Effective implementation of quality management systems*, Woodhead Publishing India Pvt.Ltd., New Delhi, 2010
- ASTM Standards.

**Grading:**

**Grading System:**

|                                   |             |
|-----------------------------------|-------------|
| Homework and Quizzes              | 20 %        |
| In-class discussions & attendance | 10 %        |
| Mid-term exam                     | 30 %        |
| Project                           | <u>40 %</u> |
| Final Exam                        | 100 %       |

**Grading Scale:**

|        |                  |        |
|--------|------------------|--------|
| 85 % ≤ | <b>Excellent</b> |        |
| 75 % ≤ | <b>Very Good</b> | < 85 % |
| 65 % ≤ | <b>Good</b>      | < 75 % |
| 50 % ≤ | <b>Accepted</b>  | < 65 % |
|        | <b>Failed</b>    | < 50 % |

**Homework:** Some problems will be assigned to cover the material of each session and they will be due at the beginning of the next meeting. Late submission for homework will not be allowed and partial credit might be applied at this situation. Collaborative work is welcome but students should write their partner’s name on the submitted solution. Occasionally, selected assigned problems will be collected for grading.

**Quizzes:** Unannounced in-class quizzes based on the completed homework (No make-ups for these quizzes)

**Communication:** Office hours for the instructor will be announced. You may contact the instructor by email at anytime. It’s your responsibility to watch your email account for messages from the instructor which may contain vital information regarding the class.

**Accessibility Policy:** Students who need special accommodations should make an appointment to see the instructor in the first week of the class. A reasonable accommodation will be provided for persons defined as having a disability.

**Academic Honesty:** All submitted work during the class should be an original work of the student. The used references should be cited clearly on the student’s work. The use of references should be responsible and no copy-paste will be allowed. Violation of these rules will result in the application of the proper legal actions against the student according to the policies of the university.



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#### Course Contents:

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| Week     | Topic   |
|----------|---|
| 1        | Class orientation and introduction                      |
| 2        | Standards systems                                       |
| 3        | Conformity assessment                                   |
| 4        | Egyptian organizations for standardization              |
| 5, 6     | Quality and sustaining business                         |
| 6, 7     | ISO9000 and its implementation                          |
| 8, 9, 10 | ASTM, forms and styles                                  |
| 11       | Statistical considerations for the number of specimens  |
| 12 - 15  | Writing specifications and testing methods for textiles |

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