

(Textile Engineering Department)

Undergraduate

Course Title: Identification Laboratory

Prerequisite: Fiber Science

Number of Credits: 1

Lecturer: Mrs. Azade Radmanesh

Course Topics:

- The roles and safety principles of the lab
 - Identification of unknown sample by staining method
 - Identification of unknown sample by burning test
 - Identification of unknown sample by microscopy method
 - Identification of fibers chemical structure
 - Saponification of cellulose acetate fibers
 - The effect of alkalis on natural fibers
 - The effect of acids on the natural fibers
 - The effect of organic solvents on manmade fibers
 - Determination of melting point on manmade fibers
 - Determination of fibers density by floatation method
 - Qualitative identification of the simple fabrics
 - Qualitative identification of the blended fabrics
 - Quantitative identification of the blended fabrics
 - Final
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Reading Resources:

- Fiber Science Laboratory