

(Textile Engineering Department)

Undergraduate

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Course Title: **Principles and Mechanism of Weaving**

Prerequisite: Weaving Process

Number of Credits: 2

Lecturer: Dr. Houshang Nosrati

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Course Topics:

- The warp let-off mechanisms
- Cloth-take up mechanisms
- Weaving production calculations
- Automation in weaving
- Control and monitoring
- Tappet motion (cam) shed formation
- Dobby shed formation
- Jacquard shed formation
- Projectile weft insertion
- Rapier weft insertion
- Air jet weft insertion
- Water jet weft insertion
- Multiphase weaving machines
- Analysis of sley motion
- Warp yarn tension on the loom
- Weaving resistance

Reading Resources:

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