

MA 562- Advanced Theory of Airfoil and Propeller

Course Code:	MA-562
UTAA Credit (Theoretical-Laboratory hours/week):	3(3-0)
ECTS Credit:	6.0
Department:	Mechanical and Aeronautical Engineering
Language of Instruction:	English
Level of Study:	Graduate
Offered Semester:	Fall and Spring Semesters.

Course Objectives

To provide our students with knowledge on basic aerodynamics, atmospheric physics and flight theory. In addition, the aim of this course is to gain the necessary knowledge about propeller terms, propeller structure, storage and propeller maintenance.

Course Content

This course; Covers atmospheric physics, aerodynamics, flight theory, flight stability, propeller terms, propeller structure, propeller pitch control, propeller ice protection, propeller maintenance and propeller storage

Course Learning Outcomes

- 1-Aircraft mechanical and electrical systems / components recognize the working principles.
- 2-The formation of the lift in aircraft flight and knows the theory.
- 3-The formation of the lift in aircraft flight and knows the theory.
- 4-Know the basic issues related to aircraft maintenance and repair and apply.