AE 372
Flight Mechanics
Spring 2017
Friday 9:40-12:30

Instructor: Assoc.Prof. Dr. İlkay Yavrucuk
E-mail: yavrucuk@metu.edu.tr
Office: Room 102 AE Building
Grad.Assist.: Hazal Altuğ
Website: http://www.ae.metu.edu.tr/~Ae372/

Topics:
1. Introduction
2. Definitions, Coordinate Systems, Euler Angles, Transformations
3. Aircraft Equations of Motion
4. Trim and Linearization (Small Gain Approach)
5. Aircraft Stability in Steady Flight
6. Longitudinal Flight Dynamics and Key Stability Derivatives
7. Lateral Flight Dynamics and Key Stability Derivatives

Grading:
2 Midterms: %50 (+/-5%)
Final: %35 (+/-5%)
Homework & Lab Work: %15 (+/-5%)

Text Books:

References: