Title: THE EFFECT OF ENVIROMENTAL CONDITION ON AIRCRAFT PERFORMANCE

Reference: Flight performance

Position Availability: 1 student.

Project Description:

In this study the performance parameters of Airbus A380 which is the largest aircraft of nowadays, will be calculated. The route of the aircraft will be chosen as, the longest distance of THY, İstanbul-Los Angeles. Later on, by changing the atmospheric conditions, the effect of enviromental parameters on aircraft performance will be investigated.

Work Description:

- Determination of aircraft performance parameters.
- Calculation of aircraft performance parameters.
- Investigation on yearly weather conditions of İstanbul and Los Angeles.
- Calculation of performance parameters with new atmospheric conditions.
- Comparison of performance parameters.

Required Qualifications and Skills:

- Should have taken ME483
- MATLAB user