Title: THE DESIGN PARAMETERS OF CARGO AIRCRAFTS AND CONVERSION OF PASSANGER AIRCRAFTS TO CARGO AIRCRAFTS

Reference: Flight performance

Position Availability: 2 students.

Project Description:

In this study, “Cargo Aircrafts” will be analysed and the design parameters will be determined. The design differences between the cargo and passanger aircrafts will be given. The expenditure for the design of cargo aircrafts and converted cargo aircrafts will be investigated. The procedure to convert the passanger aircraft to cargo aircraft will be given. Sample cargo aircrafts will be investigated and the specifications of these aircrafts will be explained. The planning of the maintenance of these aircrafts will be analysed. Some information about the companies that convert the passanger aircrafts to cargo aircrafts will be given.

Work Description:

- Determination of cargo aircraft design parameters.
- Explanation of a sample cargo aircraft design studies.
- Investigation on the advantages of the converted cargo aircrafts.
- Explanation of the procedures of converting the passanger aircraft to cargo aircraft.
- Finally, information about the companies that convert the passanger aircrafts to cargo aircrafts.

Required Qualifications and Skills:

- Should have taken ME483
- MATLAB user