

AIRCRAFT SYSTEMS LAB

DETAILED SYLLABUS

OBJECTIVES

To familiarize the students with basic aircraft systems

LIST OF GRADED PRACTICAL EXERCISES

The practical/Graded exercises should be properly designed and implemented with an attempt to develop different types of learning outcomes in affective domain and psychomotor domain, so that students are able to acquire the necessary skills. Following is the list of experiments to be carried out.

1. Identification of the important systems in use of an aircraft and their function
2. Demonstration of basic-mechanical systems like push-pull rods, cable and pulley system
3. Demonstration of hydraulic systems
4. Demonstration of pneumatic systems
5. Study of basic fuel system of an aircraft
6. Identification and study of landing gear safety devices and landing gear systems
7. Study of basic aircraft instrumentation systems
8. Study of aircraft flight control surfaces
9. Study of aircraft environmental and pressurisation systems
10. Study of aircraft ice-protection system