

EAS413 Aircraft Engineering

Level: 4

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JULY

Synopsis:

The course provides an introductory sampler in a broad range of aircraft engineering subjects and provides business awareness of the aircraft design lifecycle. The course is delivered by academic staff from Cranfield University.

Topics:

- Preliminary aerospace vehicle design
- Integrated product development tools
- Major component design and structural layout
- Methodologies for integrated product development
- Case studies in Aircraft Engineering applied to both civilian and military vehicles

Learning Outcome:

- State the considerations in the preliminary stage of an aerospace vehicle design task
- Explain the use of integrated product development tools in aircraft engineering.
- Explain the strategies used for major aerospace vehicle component design and structural layout work.
- Discuss and detail the methodologies that will be selected for integrated product development, given the problem of having to design an aerospace vehicle as an integrated product.
- Use case studies in Aircraft Engineering to discuss the engineering design aspects for civilian and military aerospace vehicles.

Assessment Strategies - Regular Semester (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	QUIZ 1	15
	LAB REPORT 1	15
Overall Examinable Components	Written Exam	70
Total		100

*The information listed is subject to review and change.

