

EAS499 Capstone Aerospace Engineering Project

Level: 4

Credit Units: 10 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY REGULAR SEMESTER

Synopsis:

The course serves to develop skills in group workings, team management and to encourage students to be innovative and “think out-of-the-box”. In order to complete the group design project, students must develop the ability to apply engineering principles to the solution of a practical design problem, using industrial practices in carrying out the design project. Along with the acquisition of innovation and teamwork, each member of the project group will master communication skills in writing and oral form, culminating in the generation of an 8000 word dissertation report and group project oral presentation of the completed work.

Topics:

- -

Learning Outcome:

- Discuss the scope of your capstone project problem to be investigated
- Analyse the motivation / benefits / rewards of your project problem
- Review the literature to gather information about the project and the available solutions
- Examine the constraints / drawbacks in the available solutions
- Define the assumptions / conditions relevant to your project
- Formulate your project problem/ model / system
- Design / implement / simulate the system
- Test the system / model / software
- Compare your results with the solutions available in the literature
- Draft a detailed report on your project work
- Summarise the project work as a poster, defining the project problem, the solution(s), benefits of the solution(s) and any improvements that can be done
- Give an oral presentation

Assessment Strategies - Regular Semester (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	PROJECT PROPOSAL 1	10
	INTERIM REPORT 1	10
Overall Examinable Components	Q&A	20
	Oral Exam	20
	Project	40
Total		100

*The information listed is subject to review and change.