



AERO4110 / AERO4120

Aerospace Design Project A & B

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project reaches a satisfactory conclusion. In order to ensure that the success of the project can be gauged by the tutors, some management requirements are laid down.

Design group meetings

Each team will meet once a week in the presence of the tutors. All students in the team must attend every meeting of their team or provide written apologies to the chairperson. The roles of chairperson and secretary for the meetings will rotate round the team at its discretion but so as to ensure all contribute.

Chairperson: The chairperson will be responsible for the conduct of the meeting and should sign two copies of the previous meeting's minutes as a true record on behalf of the meeting. It is also the role of the chairperson to rule as to the validity of any team member's excuse for non-attendance.

Secretary: The secretary should produce the minutes for the meeting and deal with any other administrative tasks for the week following the meeting.

Project file

A project file must be maintained by the group. This should be electronic and can be in a format of the team's choice. They should ensure it contains a copy of all minutes of meetings, technical reports and charts produced by the members of the team, any drawings produced and copies of all correspondence. All team members should have access to this file

Group report

The team will be expected to produce a report on progress to date in the second semester. The submission date will be two weeks before the industrial presentation. They will be expected to make a presentation of this report to staff and students from the School and

6.	Cooperatively manage and contribute to the team	PE2.1, PE2.3, PE2.4, PE3.3, PE3.4, PE3.5, PE3.6
7.	Have confidence and ability to present the team's work to industrial practitioners	PE1.5, PE1.6, PE3.1, PE3.2, PE3.3, PE3.5, PE3.6

3. Teaching strategies

This is a project based program with the students largely self-learning in a team with seven of their colleagues. A weekly meeting is held to provide guidance to each team. Experts from within the school also provide a lecture program directed towards the technical problems experienced by the individual groups.

4. Course schedule

Along with the compulsory group meeting, where marks will be lost for non-attendance without good reason, there are two lectures a week. Attendance at the lectures is optional but strongly recommended.

Session 1

Weeks	Lecture 1	Lecture 2
1	Introduction JP	Project Allocation JP CD
2 and 3	Applicable Material JP	Specific Flight Dynamics JRP
4 – 6 inclusive	Applicable Material JP	Specific Aerodynamics CD
10 - 12 inclusive	Applicable Material JP	Specific Aircraft Systems ZV

Session 2

Weeks	Lecture 1	Lecture 2
1 - 9	Applicable Material JP	Specific Aerostructures GP

The particular material provided in the general and specialized lectures will be dependent on the specific aircraft being designed, the directions the teams choose to take the project and the progress made.

5 Assessment

Assessment overview

The assessment is in two parts one being based on the team's effort and success and the other on the individual's work. While most members of a group will achieve the full team mark, any that are deemed not to have contributed sufficiently will get a reduced mark. It is the whole team's responsibility to ensure that all resources available to the project are fully utilized and this is particularly true in terms of member's time and skills. This will be reflected in the team mark.

At the end of the first session a satisfactory mark has to be recorded for AERO4110 for the student to progress to AERO4120. If the tutors believe that a student has not contributed sufficiently to the team then an unsatisfactory mark is recorded. Members of a team are encouraged to bring to the attention of the tutors any underperforming student but at the same time they must indicate what actions they have taken to remedy the situation. Individual members of a team that have requested the successful removal of a member are expected to compete with the other, now larger, teams so they have to decide whether it is worth retaining the member with the chance of obtaining some useful work or whether the management effort will exceed any potential advantage.

There are a number of contributions to the mark obtained at the end of the program for AERO4120. Failure to pass AERO4120 results in the satisfactory mark in AERO4110 being downgraded to a fail as to pass this course one has to take the two courses the same year. In order to pass the course, you must achieve an overall mark of at least 50%.

Group mark 40%

This mark is based on how well the team has carried out its task. The group report which is produced by week nine Second Session forms the main basis for this mark along with the tutor's notes on how the team performed.

Individual portfolio 40%

At the end of session two each student provides an individual portfolio containing:

- A bill of claim – Outlining the work they have done
- A critique of the design
- A critique of their team
- An appraisal of the individual members of their team

Logbook 10%

Each student must maintain an up to date log book that can be collected and marked during formal meetings.

Special contribution 10%

This mark is based on the tutor's appraisal of any work the student may have contributed to the team. It is expected that all students will make some special contribution.



If plagiarism is found in your work when you are in first year, your lecturer will offer you assistance to improve your academic skills. They may ask you to look at some online resources, attend the Learning Centre, or sometimes resubmit your work with the problem

