

MARKING CRITERIA AND STUDENT FEEDBACK

MODULE: Major Project

ASSIGNMENT: Dissertation Report

STUDENT: Jack Bridgeland

DATE: 30/4/19

This section details the assessment criteria. The extent to which these are demonstrated by you determines your mark. The marks available for each criterion are shown. Lecturers will use the space provided to comment on the achievement of the task(s), including those areas in which you have performed well and areas that would benefit from development/improvement.

Common Assessment Criteria Applied	Marks available	Marks awarded	% Awarded
1. Research-informed Literature (Extent of research and/or own reading, selection of credible sources to support the aims of the project) Extent of research and/or own reading, selection of credible sources, application of appropriate referencing conventions. 60-69%: Inclusion of a wide range of research-informed literature, including sources retrieved independently. Selection of relevant and credible sources. Very good use of referencing conventions, consistently applied. <i>A good range of research sources referenced well. These have been effectively embedded in your background sections and in some of the discussions of results to support conclusions drawn. You could have compared your results to some existing studies in places.</i>	10	6.75	68
2. Knowledge and Understanding of Subject (Ability to identify problems within, and technical direction of the project) Extent of knowledge and understanding of concepts and underlying principles associated with the discipline. 70-79%: Excellent knowledge and understanding of the main concepts and key theories. Clear awareness of challenges to established views and the limitations of the knowledge base. <i>Clear aim stated with clear project plan chart. The limitations of DIL testing could have been outlined. Good understanding of errors of baseline model. Coastdown test can be conducted in a wind tunnel? Good understanding of limitations of your work is evident, with conclusions drawn accounting for this. Technical direction of project is logical and well developed.</i>	10	7	70
3. Analysis (technical ability, analytical content and ability) Analysis, evaluation and synthesis; logic, argument and judgement; analytical reflection; organisation of ideas and evidence 70-80%: Thoroughly logical work, supported by evaluated evidence. High quality analysis, developed independently or through effective collaboration. Ability to investigate contradictory information and identify reasons for contradictions. Strong, persuasive, conclusions, justifiable recommendations <i>Validation of CFD methods is good, using both reference models and application specific data - this has led to a well posed simulation. You recognise and give reasons for some differences of Cd from CFD to windtunnel, however it is not clear you account for these later when entering predicted Cds for other configs. You have applied logical checks to validate programming entries and have drawn some convincing conclusions from the data obtained. Some excellent technical work conducted - your assessment of inaccuracies and the significance of these could be a little more detailed in places. Some setup changes were introduced, but the impact of these on performance is not clear - you could have also tried these on the baseline to characterise them independently.</i>	35	24.5	70
4. Practical Application and Deployment (progression/achievement, ability to draw conclusions and understand results) Deployment of methods, materials, tools and techniques; application of concepts; formulation of innovative and creative solutions to solve problems. 70-79%: An advanced application of a range of methods, materials, tools and/or techniques. The context of the application is well considered, with extensive use of relevant examples. Application and deployment extend beyond established conventions. Innovation and creativity evident throughout. <i>Excellent methods and investigations employed to try and develop your sim model in a logical way. You demonstrate proficiency in CFD and the sim model programming. You have conducted a good amount of work to develop the simulation, run CFD models and sim testing. This has led to you being able to understand your methods well and draw conclusions confidently from your work.</i>	35	25.4	73
5. Skills for Professional Practice (Quality of presentation and success in communicating the aims and scope of the project) Attributes in professional practice: individual and collaborative working; deployment of appropriate media; presentation and organisation. 70-79%: Can communicate professionally and, confidently in a suitable format. Can work professionally within a team, showing leadership skills as appropriate, managing conflict and meeting obligations. Work is coherent, very fluent and is presented professionally. <i>Jack, a well formatted and presented report. Results are thoughtfully presented and are clear. This is a professional document with only minor errors such as table labels should be above tables. Language used in places could be a little more technical. You should be proud of this work Jack.</i>	10	7.25	73
Assignment Mark (Assessment marks are subject to ratification at the Exam Board. These comments and marks are to give feedback on module work and are for guidance only until they are confirmed.)	Late Submission Penalties (tick if appropriate) Up to one-week late Over one week late		71 %