

MARKING CRITERIA AND STUDENT FEEDBACK

MODULE: Major Project

ASSIGNMENT: Interim Viva

STUDENT: Simon Ellis Williams

DATE: 9/12/19

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. 70-79%: 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>Good to see regulations have been reviewed and clearly the limitations have been identified (although you need to look at amendments to regs). Citations to relevant diagrams and videos on slides. CFD knowledge research informed. Good to see cited experimental data for comparison with your Ahmed body results.</i>	15	10.5	70
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>Aims clearly stated with rationale. Wing theories introduced and generally well understood. Kutta Joukowski theorem explanation was good. Good to see basic knowledge of NS equations and CFD solving process.</i>	15	10.9	73
3. Analysis (Technical content of experimental and analytical work already completed and project relevance and merit) Analysis, evaluation and synthesis; logic, argument and judgement; analytical reflection; organisation of ideas and evidence 60-69%: Sound, logical, analytical thinking, synthesis and evaluation. Ability to devise and sustain persuasive arguments, and to review the reliability, validity & significance of evidence. Ability to communicate ideas and evidence accurately and convincingly. Sound, convincing conclusions / recommendations. <i>Good to see Ahmed benchmarking case to develop CFD method and understanding. You could have more clearly justified your choices for your CFD method based on your investigations. Shame you didn't overlay CFD results for the naca 0012 results with those obtained in tunnel. Discussion of MCR wing results were interesting - could you have compared this to MIRA wind tunnel data.</i>	35	21	60
4. Practical Application and Deployment (Organisation and Planning of the project) Deployment of methods, materials, tools and techniques; application of concepts; formulation of innovative and creative solutions to solve problems. 50-59%: A good and appropriate application of standard methods, materials, tools and/or techniques. Good appreciation of the context of the application, with some use of examples, where relevant. Good to see initial practical work in CFD to benchmark methods - Good to see initial MCR wing profile CFD investigation. Shame you didn't get the model in the wind tunnel, or the naca 0012 for comparison in CFD. Results showing wing on vehicle could have also been presented by this stage so that onset flow could be assessed.	10	5.75	58
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>Lovely presentation of Ahmed body pressure distribution. Nice visually appealing slides which you spoke well around.</i>	25	18.1	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		66.3 %