

MARKING CRITERIA AND STUDENT FEEDBACK

MODULE: Major Project	ASSIGNMENT: Dissertation Report
STUDENT: Christos Zois	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.			
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>A range of relevant references cited to support background understanding and governing concepts. Established views clearly used to inform your implemented methodologies. Some reference to existing studies when discussing your findings, it may have been helpful to present some of their findings so they could be directly compared to yours. A wider range of sources could have been reviewed.</i>	10	7	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>You present the concepts and theories involved which are well understood, but drag components could have been explained in more detail. Diffuser function explained, but this could have been elaborated on from a physics point of view - why does the gradual expansion increase underbody flow. CFD methods could be explained in more detail - 'maths' section should show the equations and explain the solver process. Excellent knowledge of practical CFD demonstrated through model development. Generally you clearly have a very good understanding of the work completed and the significance of the results.</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 case using MIRA is very good and decisions made from results are logical and justified. Given the negligible time increase for simulating rotating wheels, your decision not to simulate this needs more justification given the impact on results. Attitude studies of baseline are very good. Centre diffuse appears to increase Cd not decrease it contrary to your statement? Side channel studies are good with consideration of tyre squirt highlighted as significant aspect. Strake studies don't appear to be very consistent - this should have been questioned and investigated to further understand. You could have investigated strake impact on yaw performance - this may become more significant. Excellent analysis in general.</i>	35	25.4	73
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>Simulation was developed using multi stage validation in a logical fashion. This provides confidence in the methods applied. Good to see you acknowledge practical limitations on design such as regulations and packaging. Some excellent postprocessing for comparisons - this has clearly been thought about carefully. You have conducted a vast number of investigations.</i>	35	26.3	75
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.			
80-100%: Can communicate with an exceptionally high level of professionalism. Can work exceptionally well and professionally within a team, showing advanced leadership skills. Work is exceptionally coherent, very fluent and is presented professionally. <i>Report is well written and presented. Your statements are clear and concise. Don't use the word 'Maths' use mathematics. Generally this document presents your work thoughtfully and graphical plots are clear. Well done Christos.</i>	10	8	80
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			
	74	%	