

MARKING CRITERIA AND STUDENT FEEDBACK

MODULE: Group Project

ASSIGNMENT: Report

STUDENT: Harry Farnham

DATE: 1st April 2019

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
1. Research-informed Literature (Extent of research and/or own reading, selection of credible sources, application of appropriate referencing conventions.) 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>Some interesting reading and thoughtful observations</i>	10	7.2
2. Knowledge and Understanding of Subject (Extent of knowledge and understanding of concepts and underlying principles associated with the project) Extent of knowledge and understanding of concepts and underlying principles associated with the discipline.		
60-69%: Knowledge is extensive. Exhibits understanding of the breadth and depth of established views. <i>You understand the significance of mass distribution</i> <i>An interesting comparison with other vehicles. Did you figures unclude drive and passenger?</i> <i>The inlusion of some plots could be questioned eg centre of gravity and weight transfer. It is linear and you have plotted it over a large range.</i>	25	17
3. Analysis (For example - use of analytical calculations, Matlab, Excel FEA CFD, Wave, WinGeo3 etc.) 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>It is not obvious that you created a spreadsheet with the centre of gravity of each component listed in all three planes.</i> <i>It would be interesting to see how sensitive mass distibution was to vehicle dynamic behaviour (linking it in to the simulator work that the team was doing.</i> The analysis of the roll cage/chassis structure is very complex. Probably rather too much to take on in addition to the mass distribution work. Is the MSA roll cage defined structurally? What are the FIA requirements?	25	16
4. Practical Application and Deployment (Design ideas, proposed design parameters and methods for evaluation of these ideas such as experimental work and simulation) Deployment of methods, materials, tools and techniques; application of concepts; formulation of innovative and creative solutions to solve problems.		
60-69%: A very good application of a range of methods, materials, tools and/or techniques. Very good consideration of the context of the application, with perceptive use of examples, where relevant. Evidence of some innovation and creativity. It would have been good to have performed some controlled testing to validate your FEA methodology. It's worth talking with Kelvin Lake as he is experienced in this area. Thoughts in the conclusion. Would an extra 6 kgs really equate to a 0.5 secs/lap increase in time? Which circuit? Please avoid comments that are opinions. Eg reduce the size of material to thinner metal, could weaken the sttructure significantly.	20	12.2
5. Skills for Professional Practice (How well you worked as a group. Report presentation quality, project planning and organisation.) Attributes in professional practice: individual and collaborative working; deployment of appropriate media; presentation and organisation.		
50-59%: Can communicate effectively in a suitable format, but may have minor errors. Can work effectively as part of a team, with clear contribution to group activities. Mostly coherent work and is in a suitable structure. <i>Graphs etc should have figure numbers so that you and the reader can refer to them.</i> <i>Report style numbering would help</i>	20	11.6
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	FEA 64 %