

MARKING CRITERIA AND STUDENT FEEDBACK

MODULE: Group Project

ASSIGNMENT: Report

STUDENT: Quan Zhou

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.		
50-59%: Inclusion of a range of research-informed literature, including sources retrieved independently. Referencing conventions mostly consistently applied. <i>Lots of interesting papers and articles on suspension modelling within matlab etc</i> <i>It would have helped if you had researched the application (eg road nsurafce profile) for race circuits etc.</i>	10	5.8
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>Good 'classic' suspension analysis/mathematics.</i> <i>It is not clear what was the natural frequency of the original suspesion and what is yours?</i>	25	15.8
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		
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>Good use of Matlab to create the model</i> <i>Interesting analysis of the original spring and curve matching for the high and low speed damping(bump & rebound)</i> Why select the road roughness model that you did? Does it releate to the surfaces the car will need to perform best on?	25	17
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.		
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 some damper testing. What is the original spring stiffness? The steering section is short. Did the original vehiclemexhibit pure Ackerman? What are the other options/effects?	20	11.6
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>Rather too much classic suspension modelling downloaded.</i> <i>Please try to use an appropriate number of significant figures.</i>	20	11.6
58 Late Submission Penalties (tick if appropriate) Up to one-week late Over one week late	61.8 %	