

MARKING CRITERIA AND STUDENT FEEDBACK				
MODULE: Research Methods and Project				
ASSIGNMENT: Dissertation				
STUDENT: Toby Marshall				
DATE: 08/05/2020				
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. Engagement with Literature Skills (research/literature survey)				
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.		10	6.5	
Good use of research to support the background knowledge section. Some later stages of the report could have had more research embedded in them. The referencing conventions are well applied.				
You provide cited evidence throughout, which is supported by an broad bibliography but you should have reviewed some literature that would have supported your validation processes whilst reviewing live testing and simulation techniques.				
2. Knowledge and Understanding Skills (ability to identify problems)				
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.		30	20.4	
Good explanation of the background to suspension and the different aspects that have to be considered. It is clear that you have a very good understanding of the testing procedures required and how these should be implemented to improve accuracy.				
Your literature review provided an insight into the terminology of vehicle dynamics and you briefly defined the workings of CAE suspension software to support your research. You discussed various forces that would act on the vehicle but you don't actually quantify them.				
3. Cognitive and Intellectual Skills (technical ability, analytical content and ability)				
Analysis, evaluation and synthesis; logic, argument and judgement; analytical reflection; organisation of ideas and evidence				
50-59%: Evidence of some logical, analytical thinking and synthesis. Can analyse new and/or abstract data and situations without guidance. An emerging awareness of different stances and ability to use evidence to support the argument. Valid conclusions and recommendations, where relevant		30	15.9	
It is good to see you have conducted a range of tests within WinGeo, however it would have been good to mention in the methodology that the results were following later in the report. I think it would have been better to discuss the manufacturing adjustable arms after you had discussed the bumpsteer graph results. I would have liked to have seen your bumpsteer graphs supported by research, even for different vehicles just to show that your trends are correct. Some analysis could have been improved by being quantitative in your discussions.				
You introduce various graphical evidence that had been generated from your workshop measurements and WinGeo outputs but you don't offer any of your own analytical calculation and when you express that not all the data is identical, as defined in table 7 you still state that WinGeo is accurate. Is this totally true? Why were there discrepancies, which comes back to your validation processes				
4. Practical Application Skills (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				
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.		20	11	
Component measurements taken in the workshop, in a logical and thorough manner, supported by research. Good to see that when setting up your WinGeo model, you validated it with an actual reading from the components. A very clear test plan had been developed and it was well thought through, unfortunately due to Covid-19, this could not occur. You know that progress in the project was slower at earlier stages and therefore I do think this impacted on what you were able to achieve as well.				
You do provide an insight into the practical assessment of the rear suspension unit and review your simulation operations and discuss events that would have been beneficial to you had the live track testing taken place and further testing of the workshop suspension with modifications. You make a statement that once you had modified the arm with an adjustable rose joint that the design actually increased the strength and minimised stress and fatigue how was this verified?				
5. Transferable Skills for Life and Professional Practice(presentation and organisation of report)				
Attributes in professional practice: individual and collaborative working; deployment of appropriate media; presentation and organisation.				
60-69%: Can communicate well, confidently and consistently in a suitable format. Work is coherent and fluent and is well structured and organised.		10	6.8	
Well written and presented report, though some areas do feel in the wrong order and sometimes information is repeated. It is clear that the project was heavily impacted by Covid-19 leading to no physical track data and subsequent analysis.				
Abstract and introduction was good followed by a comprehensive literature review. The conclusion could have been more concise and we acknowledge the issues that you were going through towards the end of the project.				
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)		60.6	
	Up to one-week late			%
	Over one week late			