

MARKING CRITERIA AND STUDENT FEEDBACK

MODULE: Vehicle Dynamics	ASSIGNMENT: Steady state load transfer and aerodynamic loading
STUDENT: Ryan James	DATE: 25/3/19

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	Percent Awarded
1. Research-informed Literature Extent of research and/or own reading, selection of credible sources, application of appropriate referencing conventions. (e.g. Research of testing procedures, vehicle specifics, aerodynamic principles, testing methods etc)			%
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 good citations to support your understanding of the links between handling balance, weight transfer distribution and roll stiffness distribution.</i> <i>You have conducted some good background reading regarding aerodynamics and how the aerodynamic performance could be mapped.</i> <i>Citations to very relevant sources to support understanding of key concepts and expectations. A wider range of sources could have been cited to demonstrate a range of views.</i>	10	7	70
2. Knowledge and Understanding of Subject Extent of knowledge and understanding of concepts and underlying principles associated with the discipline. (e.g. Choice of tests and explanation of underlying principles)			
80-100%: Highly detailed knowledge and understanding of the main theories/concepts, and a critical awareness of the ambiguities and limitations of knowledge. <i>You demonstrate an excellent depth of knowledge of aerodynamic principles and weight transfer as well as the effect of these on vehicle balance</i> <i>You also show an extensive appreciation for the analysis techniques and principles applied</i> <i>Clearly recognise WT total is not setup dependant only distribution. Equations implemented clearly presented (total roll stiffness not fully defined).</i>	25	22.5	90
3. Analysis Analysis, evaluation and synthesis; logic, argument and judgement; analytical reflection; organisation of ideas and evidence (e.g. Analysis of data, findings and use of MATH channels)			
80%-100%: Exceptional work; judiciously selected and evaluated evidence. Very high quality analysis, developed independently or through effective collaboration. Ability to investigate contradictory information and identify reasons for contradictions. Highly persuasive conclusions <i>Excellent analysis conducted of the relationships between roll stiffness, load transfer and handling balance. Conclusions drawn are clearly evidence based through the data and results are assessed critically.</i> <i>Excellent analysis conducted with evidence based conclusions drawn through fundamental assessment of the aerodynamic data obtained, to fully map the aerodynamic characteristics of the vehicle. You have critically assessed the results.</i> <i>Excellent, detailed analysis with clear critical thinking and assessment of trends given application.</i>	25	22.5	90
4. Practical Application and Deployment Deployment of methods, materials, tools and techniques; application of concepts; formulation of innovative and creative solutions to solve problems. (e.g. Test Plan, Use of Motec i2, conclusions drawn from analysis)			
80-100%: Outstanding levels of application and deployment skills. Assimilation and development of cutting edge processes and techniques. <i>Excellent use of math channels which are well defined using the tools available.</i> <i>Presentation of results and analysis is excellent. You have clearly thought about how you will present your findings in a clear and concise manner. You have used advanced techniques available to fully support your conclusions</i> <i>Very good application of methods to obtain the data required to draw conclusions and question results.</i>	25	22.5	90
5. Skills for Professional Practice Attributes in professional practice: individual and collaborative working; deployment of appropriate media; presentation and organisation. (e.g. Technical report writing and presentation.)			
60-69%: Can communicate well, confidently and consistently in a suitable format. Can work very well as part of a team, with very good contribution to group activities. Work is coherent and fluent and is well structured and organised. <i>A very good account of the investigation conducted, could be structured a little more professionally in places.</i> <i>Technical report formatting and presentation generally is very good. A couple of minor errors only.</i> <i>Although I understand the use of bullet points to save word count, the document should not as heavily relied on these for every statement. A conclusion should have been included to summarise your findings.</i>	15	10.1	67.5
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	85	%