

MARKING CRITERIA AND STUDENT FEEDBACK				
MODULE: Research Methods and Project				
ASSIGNMENT: Dissertation				
STUDENT: Liam Standing				
DATE:				
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.				
70-79%: A comprehensive range of research informed literature embedded in the work. Excellent selection of relevant and credible sources. High-level referencing skills, consistently applied.		10	7.75	
A good range of references from relevant sources. Your referencing was used extensively throughout to support your findings especially that you had to utilise some of your data from other paper to support your analysis and technical observations and conclusions.				
You have embedded relevant references from a wide range of sources. Electric compressor research could have been further reviewed as this is critical change for your design. You have based unknown values on referenced findings using a number of sources to confirm reasonable assumptions				
2. Knowledge and Understanding Skills (ability to identify problems)				
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.		30	21.8	
You provided a well-defined research strategy and discussed the limitations. You also described the simulation conditions you actually followed ATCT and how you would validate your work, whilst referencing various papers. You defined the operations of the actual AC system and introduced an alternative AC unit. You do briefly mention KERS but it's badly referred to and confusing in places.				
Excellent knowledge of drive cycles and rationale for project investigation. It would have been good for you to contextualise the AC system losses compared to others found on a vehicle to show its significance.				
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				
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.		30	20.3	
Within your results section you could have elaborated on your physical time and procedures in obtaining your results. Some of your appendix graphs and matrixes could have been within the main text. However, there is evidence that you carried out significant analysis but it needed to be more technically defined and evaluated.				
Results should have been presented in the main body not appendix. Your analysis is good but you could have been more critical in your findings and methods to assess the limitations of validity of your work. Analysis of the data could have been a little more detailed. The 'simulation' techniques / mathematics for the alternative system should have been presented more clearly.				
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				
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.		20	14	
Your practical tests procedures were defined along with the limitations. Most of your data was collected from your research literature and both were reviewed within your analytical simulation package. Provision of vehicle resistances were calculated along with enthalpy to determine fuel consumption. You do discuss some validation aspects to substantiate your finding however, by applying these different techniques you should have reviewed some papers on validating live testing against theoretical simulation.				
Practical testing is outlined well with reasoning of choices. Good conclusions drawn from the data collected. You could have explained the control measures implemented and demonstrated assessment of the repeatability of your results/findings.				
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.				
70-79%: Can communicate professionally and, confidently in a suitable format. Work is coherent, very fluent and is presented professionally.		10	7.25	
Your abstract and introduction was well presented followed by well-defined aims. Background was too brief more insight into NEDC, WLTP and KERS would have been beneficial.				
Report reads well, and apart from the results not being embedded in the main body, it's structured well.				
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)		71	
	Up to one-week late			%
	Over one week late			