

MARKING CRITERIA AND STUDENT FEEDBACK				
MODULE: Research Methods and Project				
ASSIGNMENT: Dissertation				
STUDENT: Yousouf Boukra				
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.				
80-100%: Outstanding knowledge of research-informed literature embedded in the work. Outstanding selection of relevant and credible sources. High-level referencing skills consistently and professionally applied.			10	9
A very comprehensive bibliography and well cited evidence throughout.				
Excellent range of relevant research embedded throughout the report, which was greatly informed of current academic studies. You have used the research to provide confidence in your conclusions and defined your methodology extremely well.				
2. Knowledge and Understanding Skills (ability to identify problems)				
Extent of knowledge and understanding of concepts and underlying principles associated with the discipline.				
80-100%: Highly detailed knowledge and understanding of the main theories/concepts, and a critical awareness of the ambiguities and limitations of knowledge.			30	26.3
Project strategies were defined and you discussed various modelling phases, digital data sets to devise scanned files whilst considering time efficiencies and manufacturing costs along with technical discussion on the various limitations each process had whilst being supported by a very strong literature review.				
Excellent knowledge of your subject area demonstrated. You clearly understand the project implications and the compromise between tumble and mass flow. The limitations of the CFD modelling process could have more clearly been identified - The different modelling options and their relative limitations could have been discussed.				
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				
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			30	24
Through your analysis and technical evaluation of your findings it provided significant evidence to support each stage of your investigation and you proved through your validation processes that there was a very small deviation with your CFD, physical calculations and your literature evidence.				
Excellent clear analysis of your designs and the current research. You can clearly analyse new data and draw evidence based conclusions. Your 'optimised' design could have been further justified with parametric studies, investigating multiple angles for instance and finding the optimum, rather than using a conceptual approach.				
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				
80-100%: Outstanding levels of application and deployment skills. Assimilation and development of cutting edge processes and techniques.			20	17
Your practical aspects ranged from extensive research using flow bench simulation to CAD designs followed by turbulence modelling and you also formulated an argument on alternative methods for verification and validation of CFD processes.				
Excellent practical work conducted. Good to see the CAD modelling and surfacing skills along with the CFD modelling, which have been compared critically to assess validity. Further interrogation of simulation options and port geometry features was possible.				
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.				
80-100%: Can communicate with an exceptionally high level of professionalism. Work is exceptionally coherent, very fluent and is presented professionally.			10	9.5
A very good abstract, followed by an excellent introduction and well formulated aims. The report was professionally devised.				
Excellent report Yousouf! It was a pleasure to read. You have concisely and clearly covered the work conducted and the conclusions found. Excellent.				
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		85.8
		Over one week late		