

MARKING CRITERIA AND STUDENT FEEDBACK

MODULE: Simulation and Modelling	ASSIGNMENT: CFD
STUDENT: Jake Mowbray	DATE: 13/5/19

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.			%
60-69%: Engagement with a wide range of research-informed literature, including sources retrieved independently. Selection of relevant and credible sources. Very good use of referencing, with no/very few inaccuracies or inconsistencies. <i>Evidence of some excellent supporting reading from relevant citations embedded in background knowledge. Initial model setup could be more literature informed, although later citations show how literature supported your development decisions. Results could have also been directly compared against established works.</i>	10	6.75	68
2. Knowledge and Understanding of Subject Extent of knowledge and understanding of concepts and underlying principles associated with the discipline.			
60-69%: Knowledge has a well-defined focus, which is reasonably extensive, coherent and detailed, with a critical awareness of current problems and/or new insights. Exhibits good understanding of the breadth and depth of contemporary and established views, and the work is, at least in part, well-informed by current research and scholarship. <i>Your discussion of your method development clearly demonstrates a good appreciation for simulation model considerations and limitations. You have outlined the methods implemented well, although some decisions could have been further justified.</i>	25	16.9	68
3. Analysis Analysis, evaluation and synthesis; logic, argument and judgement; analytical reflection; organisation of ideas and evidence			
60-69%: Sound critical evaluation/ critique of current research and methodologies, Proposes new hypotheses, where appropriate. Can deal with complex issues systematically and with some creativity. Ability to make sound judgements based on data (that may be incomplete) <i>Some good critical analysis points made regarding the initial model. You could have critically compared these with existing studies. Model development based on iterative analysis of results evident - It is clear domain, mesh and turbulence model decisions are results based. Evidence of monitoring of mesh quality with measures implemented to improve. More detailed and structured domain size and mesh density studies could have been performed and would have demonstrated result independency from simulation setup.</i>	30	20.3	68
4. Practical Application and Deployment Deployment of methods, materials, tools and techniques; application of concepts; formulation of innovative and creative solutions to solve problems.			
60-69%: A very good application of a range of methods, materials, tools and/or techniques. Very good consideration of the context of the application, with perceptive insights. Can identify problems and propose appropriate solutions in complex and unpredictable contexts. Evidence of originality and creativity. <i>Good model development, with a running simulation producing reasonable results. Further studies would have given more confidence in the final model proposal. Post processing presented is reasonable and good to see this have been interrogated to assess your methods.</i>	25	16.3	65
5. Skills for Professional Practice 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, fluent, well-structured and organised. Can work very well autonomously and/or as part of a team, with a good contribution to group activities. Demonstrates comprehensive professional, postgraduate employment skills. <i>Work is generally well presented, but sections and subsections could have been used to further structure to the report and work.</i>	10	6.5	65
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		
	67	%	