

MARKING CRITERIA AND STUDENT FEEDBACK

MODULE: Simulation and Modelling	ASSIGNMENT: CFD
STUDENT: George Wright	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.			%
70-84%: Engagement with an extensive range of relevant and credible literature, informed by the latest research. Consistently accurate application of referencing. <i>A range of relevant sources listed in reference list and these have been cited in discussions well. Evidence of detailed reading regarding the geometry for investigation. Good to see research sources compared directly to your results to provide confidence in the validity of your model.</i>	10	8.25	83
2. Knowledge and Understanding of Subject Extent of knowledge and understanding of concepts and underlying principles associated with the discipline.			
70-84%: Excellent mastery of a complex and specialised area of knowledge. A systematic, excellent understanding of the concepts of the subject informed by current research and scholarship. Highly critical awareness of current problems and/or new insights. A critical, awareness of how the boundaries of knowledge are advanced through research. <i>Overview of the CFD process is clear and concise. Good to see reading supporting the authors knowledge of the application and expected results. Assumptions clearly stated - these could be justified. Excellent discussion of domain position based on expected flow phenomena.</i>	25	18.8	75
3. Analysis Analysis, evaluation and synthesis; logic, argument and judgement; analytical reflection; organisation of ideas and evidence			
70-84%: Excellent critical evaluation/ critique of current research and methodologies, Proposes innovative hypotheses, where appropriate. Can synthesise complex issues systematically and creatively. Ability to investigate contradictory or incomplete information and make strong, persuasive, arguments and sophisticated judgements. <i>Good to see detailed analysis of flow structures from initial case used to influence model development regions. Good to see mesh quality monitored during development. Mesh strategy developed throughout based on reasonable logic. Final model is well posed with a good mesh strategy. You could have conducted more structured domain and mesh investigations to identify trends and convincingly establish the simulation is method independent.</i>	30	23.3	78
4. Practical Application and Deployment Deployment of methods, materials, tools and techniques; application of concepts; formulation of innovative and creative solutions to solve problems.			
70-84%: 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. <i>Model setup clearly documented with essential model parameters specified. Some good post processing to highlight main flow structures. Model has been developed in a logical way. Mesh strategy could have been investigated further.</i>	25	19.4	78
5. Skills for Professional Practice Attributes in professional practice: individual and collaborative working; deployment of appropriate media; presentation and organisation. 85-100%: Can communicate with an exceptionally high level of professionalism. Work is remarkably coherent, very fluent and is presented professionally. Can work outstandingly well and professionally within a team, showing advanced leadership skills. Demonstrates exemplary professional, postgraduate employment skills and a strong appetite for further development.			
 <i>A very well structured and formatted report. This is a professional account of the work carried out to develop your simulation model.</i>	10	8.5	85
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		78 %
	Over one week late		