

MARKING CRITERIA AND STUDENT FEEDBACK

MODULE: Simulation and Modelling

ASSIGNMENT: CFD

STUDENT: Haiwei Hu

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.			%
50-59%: Engagement with an appropriate range of research-informed literature, including sources retrieved independently. Some over-reliance on texts. Referencing may show minor inaccuracies or inconsistencies. <i>A wider range of background sources should be cited to support your methods, understanding and comparison of results. Sources referenced are relevant and clearly used to support your understanding</i>	10	5.25	53
2. Knowledge and Understanding of Subject Extent of knowledge and understanding of concepts and underlying principles associated with the discipline.			
50-59%: Knowledge is accurate and reasonably detailed. A systematic understanding of the field of study informed by, to some extent, current research and scholarship, A critical awareness of current problems and/or new insights though this may be under-developed occasionally. <i>FVM and CFD models outlined, basic understanding evident although appears to be straight out of a book. The process of CFD model development could have been discussed. Further research into the use of the Ahmed geometry would have contextualised the problem. Method outlined but lacking justification of modelling decisions.</i>	25	12.5	50
3. Analysis Analysis, evaluation and synthesis; logic, argument and judgement; analytical reflection; organisation of ideas and evidence			
50-59%: Some critical evaluation/ critique of current research and methodologies, though slightly underdeveloped in places, Proposes adequate but limited new hypotheses, where relevant. Can deal with complex issues but not fully systematically or creatively. Ability to make judgements based on data (that may be incomplete) but with some tendency to assert/state opinion rather than argue on the basis of reason and evidence. <i>Some logical mesh development based on results obtained with some critical analysis of the result detail. You could have explained convergence criteria further. You have not presented the experimental data for comparison with your results. Results could have been interrogated further. Direct comparison with existing studies would have helped here.</i>	30	16.5	55
4. Practical Application and Deployment Deployment of methods, materials, tools and techniques; application of concepts; formulation of innovative and creative solutions to solve problems.			
50-59%: An appropriate application of standard methods, materials, tools and/or techniques. Clear appreciation of the context of the application. Mainly consistent, accurate and logical application of theory to practice, making appropriate links between the two. Can identify problems and propose mostly appropriate solutions in complex and unpredictable contexts, with elements of originality. <i>Some basic but good post processing utilised to assess results. Modelling decisions do show some logical applied to develop the model, but justification of some modelling decisions lacking.</i>	25	12.5	50
5. Skills for Professional Practice Attributes in professional practice: individual and collaborative working; deployment of appropriate media; presentation and organisation.			
40-49%: Can communicate in a suitable medium but with some room for improvement. Mostly ordered presentation and structure in which relevant ideas / concepts are reasonably expressed. Work may lack coherence in places. Can work as part of a team, but with limited involvement in group activities. Demonstrates some but not all of the basic skills required in professional, postgraduate employment, with some areas of <i>Report formatting shows room for improvement. Sections should be numbered and figures captioned. Please refer to the technical report guidelines on Moodle School of Engineering Hub.</i>	10	4.5	45
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		51 %
	Over one week late		