SCIF30006 Project Marking Criteria (21 point scale)

The university are updating their marking criteria; this is designed to help you understand what to aim for, and also to improve consistency. You can learn more about this and see the overall criteria at this link: https://www.bristol.ac.uk/academic-quality/assessment/regulations-and-code-of-practice-for-taught-programmes/marking-criteria/. The components of this exercise are going to be marked against the following criteria:

For the coding component: A modified version of Knowledge, replacing literature with coding best practice; Problem-Solving and Specialist Skills & Techniques. For the report component: Critical Approach, Explanation & Interpretation, Research and Communication. In the tables below, I have collated these criteria; I have also aligned them to the criteria we have used in some of your earlier SCIF units so you can map them onto each other. This will hopefully help your understanding. While we transition, we'll make every effort to be clear and consistent, but if you have any questions, please ask.

NF, 25/02/2025

For the coding component:

Mark	%	Knowledge	nowledge Problem-Solving Specialist Skills & Techniques		Old Criteria	
20 19	100 94				Excellent with Outstanding Aspects All parts of the task have been completed with significant useful extra code which goes beyond the brief. The	
18	83	and/or concepts of the discipline(s).	of complex problems and applying appropriate approaches to their solution, showing initiative, autonomy and creativity	Consistent demonstration of accomplished and exceptionally innovative application of the discipline's specialist skills and the capable and effective application of its advanced techniques.	code/analysis is very clear and consistent (e.g. useful comments, easily understandable variable names, all defined variables are used) throughout with excellent documentation. The code functions to a high standard and is robust with excellent programming style used throughout with no errors.	
17	78				Mostly excellent (16 & 17) All parts of the task have been	
	75	Excellent knowledge and understanding of the main concepts and key theories/ concepts of the discipline(s). Represents mostly best practice.	aspects of complex problems. Is effective and shows initiative and autonomy in using appropriate	Consistent demonstration of accomplished and innovative application of the discipline's specialist skills as well as the informed application of its advanced techniques.	completed with useful extra code that goes beyond the brief. The code/analysis is clear and consistent throughout, with very good documentation. The code functions to a high standard and is robust with mostly excellent programming style used throughout with no errors.	
15	72				Mostly very good (14 & 15)	
14	68	ISVETAMATIC AND CONGRANT	of complex problems and is effective	Consistent demonstration of capable and effective application of the discipline's specialist skills and evidence of developing and applying its advanced techniques.	All parts of the task have been completed, performing all tasks asked for. The code/analysis is mostl clear and consistent throughout with good documentation. The code functions to a mostly very good standard, is robust and has very goop programming style used throughout,	

Mark	%	Knowledge	Problem-Solving	Specialist Skills & Techniques	Old Criteria
					with no major weaknesses and no errors.
13	65				Mostly good (13 & 12)
					All parts of the task have been
					completed, performing all tasks
					asked for. The code/analysis is mostly clear and consistent but may not be
					fully documented. The code
12	62				functions to a mostly good standard,
					is relatively robust with satisfactory
					programming style with no major
					weaknesses. May contain minor
					errors/bugs.
11	58				Mostly satisfactory (10 & 11)
					Most parts of the task have been
		programming standard. Some awareness of the relevance/	Shows ability to identify key aspects of complex problems and draws on appropriate resources for addressing them.	Consistent demonstration of the development and informed application of discipline-specific specialist skills.	completed, performing most tasks asked for. The code/analysis is mostly
					clear and consistent but may not be
	55				documented. The code functions to a
10					mostly satisfactory standard, with
					mostly satisfactory programming
					style but there may be one or more
					errors which prevents part of it
					running correctly and it may not be robust.
					Some satisfactory, some poor (8&9)
					Most parts of the task have been
	52				attempted, performing some tasks
9					asked for. The code/analysis may be
					less clear and may lack consistency.
					Some parts of the code do work but
					errors prevent most of it working
					correctly.

Mark	%	Knowledge	Problem-Solving	Specialist Skills & Techniques	Old Criteria
8	48		Limited ability to identify the key		See above
7	45	Sufficient understanding to deal with			Mostly poor (6 & 7) Some parts of the task have been
6	42	with quite significant problems. Some	aspects of complex problems and use appropriate resources to address them.	Demonstrates evidence of developing and applying discipline-specific specialist skills.	attempted but not the majority. The code/analysis is mostly unclear and lacks consistency. Code mostly not functional. Some significant parts could work in principle but contain serious errors.
5	35		the key elements of complex problems and deploy appropriate	Has not demonstrated sufficient evidence of the development or	Poor to unacceptable Most of the exercise not completed. Code is not functional. Some significant parts could work in principle but contain serious errors
	29 22	significant inaccuracies.		application of discipline-specific specialist skills.	Mostly unacceptable (3 & 4) Almost all of the exercise is not completed. Code is not functional. Some small sections of code could work in principle but contain serious errors
2	15 7	Major gans in knowledge and	Does not show ability to identify key aspects of complex problems or to	No evidence of the development or	Unacceptable (1 & 2) Almost all of the exercise is not completed. Code is not functional. Some evidence of effort and basic
0		level. Substantial inaccuracies.	use appropriate resources to address them.	application of the discipline's specific or specialist skills.	understanding but no parts could work even in principle. Work not handed in or no significant effort made to write code.

For the project report:

Mark	%	Critical Approach	Explanation & Interpretation	Research	Communication	Old Criteria
19		Exceptional critical awareness of the ambiguities	Sophisticated perception, critical insight and interpretation of complex matters and ideas.	tasks, including evaluation,	Can communicate effectively to a range of audiences in an engaging and professional manner, using a wide range of media as appropriate.	Excellent with Outstanding Aspects Clearly and logically laid out sections. All parts of the task have been addressed with significant extra analysis and discussion which goes beyond the brief. Excellent presentation. Outstanding command of critical analysis and judgment.
	78 75	Excellent critical awareness	A thorough, perceptive and	complete a range of	Can communicate effectively to a range of	Some excellent, with the rest good Clearly and logically laid out sections. All parts of the task
15		of the limitations of the	thoughtful interpretation of complex matters and ideas.	research tasks, including evaluation, with a	audiences, using a wide range of media as appropriate.	have been addressed with extra analysis and discussion which goes beyond the brief. Very good presentation. Able to display a command of critical analysis and judgement.
14	68					Mostly good
13	65 C	awareness of the limitations	A thorough interpretation of complex matters and ideas	can successfully complete a range of research tasks, including evaluation, with	effectively to a range of audiences, using a wide range of media as appropriate.	Clearly laid out sections. All parts of the task have been
12						addressed in a clear way. Good presentation of material. Able to employ critical analysis and judgement.

Mark	%	Critical Approach	Explanation & Interpretation	Research	Communication	Old Criteria
10	58 55 52	Limited evidence of a critical approach to the knowledge base.	Clear and consistent explanation of complex matters and ideas.	Can competently undertake reasonably straightforward research tasks with minimum guidance.	Is able to communicate appropriately to a range of audiences and shows some ability to deploy different media as appropriate.	Mostly satisfactory Sections may not be clearly laid out. Most parts of the task have been addressed with some analysis and discussion. Adequate presentation of material. Some grasp of issues and concepts underlying the techniques and material taught.
7	48 45 42	Little evidence of a critical approach to the knowledge base.	Some ability to explain some complex matters and ideas.	Can competently undertake reasonably straightforward research tasks with minimum guidance, but with minor weaknesses.	Shows some awareness of ways that communication needs to be adapted for different audiences.	Mostly poor May contain no sections. Some of the analysis and discussion has been attempted but is incomplete. Poorly presented. Some grasp of the issues and concepts underlying the techniques and material taught, but weak and incomplete.
5	35	No evidence of a critical approach to the knowledge base.	The student's explanations are weak and/or poorly constructed.	Limited evidence of being able to undertake straightforward research	Shows limited awareness of the ways communication needs to	Poor to unacceptable Most of the analysis is incomplete. Very poorly

Mark	%	Critical Approach	Explanation & Interpretation	Research	Communication	Old Criteria
				tasks without substantial guidance.	be adapted for different audiences.	presented. Deficient understanding of the issues and concepts underlying the techniques and material taught
4	29					Mostly unacceptable (1-4)
3	22					Incoherently presented with no clear attempt at analysis. Lack
2	15					of understanding of the issues
1		No evidence of a critical approach to the knowledge		undertake straightforward research tasks without	Shows very limited awareness of the ways communication needs to	and concepts underlying the techniques and material taught.
0	0	base.	une or rousoning	extensive guidance.	be adapted for different audiences.	No significant assessable material.