

L6 Assignment Brief: Comp3402 Nature of Computing 2020-21

Assignment 2 (Part 1)	Position Paper 2 (Part 1)
Word Limit or equivalent (e.g. time)	No word limit. Indicative time 14 hours
Weighting	1 / 6 of total module marks
Learning Outcomes Assessed	4. Critically evaluate the structure and function of autonomous intelligent systems.
Submission date	'Early-Bird' 17 th January 2022 'Official' 14 th February 2022
Feedback date	One week following submission
Module Leader	Dr Colin Price c.price@worc.ac.uk
Verified by	Dr Pete Moody

If anything about this assignment is not clear to you, please contact your module leader.

What do I need to do to make a success of this assignment?	You will write a position paper reflecting on this statement, including workshop material.			
	“Wind Energy could be the best solution for our current and future energy needs”			
	There are two main sections to this paper, each has two options. The first section is based on sessions 1&2, the second is based on sessions 3&4. Both sections carry equal weights.			
	Section 1		Section 2	
Option 1	Option 2	Option 1	Option 2	
You will conduct simulations of a single wind turbine and analyze the captured data following worksheet guidance. There is no coding involved here.	This is for Coders. You will adapt the C++ code provided following worksheet guidance. You will then conduct limited simulations and analyze your data following worksheet guidance. Note that you will have the opportunity to continue developing your understanding of C++ in PP3 (part 1) after the Christmas Vac.	You will conduct investigations into air flow around a single turbine. Then you will investigate how the air flow around multiple turbines works, leading to an understanding of wind-farm design.	It is expected that you will look at the air flow worksheets. But you may choose to take a more 'research-based' approach, looking at the literature (and other sources) for information about the current and future energy production methods, and relate wind energy to these.	
Your paper will include details of your investigations, or coding, or research. You should end it with a short reflection of your 'position'				

How should I present my work?	<p>You may choose to write the paper in an ‘essay’ style without any headings, or you may structure your paper with headings, like a report, or you may choose something else.</p>
How can I obtain guidance on my assignment?	<p>You can submit an assessment plan of your work in progress or a short piece of text (no longer than two sides of A4, incorporating images, diagrams, tables) to enable you to obtain guidance on the overall structure and direction of your assignment. You should submit this no later than one week before the submission deadline to enable you to review and address feedback provided to develop your work. This will be in a Blackboard drop-box, alternatively you may choose to demonstrate your work in class.</p> <p>You will receive an assignment briefing during w/c 22nd November 2021.</p>
How and when do I hand my assignment in?	<p>Your work must be word-processed/typed and should clearly show your student number.</p> <p>There are two possible submission dates. The ‘official’ date as required by the Module Specification is 14th February 2022. All students must submit their Position Paper 2 (both Parts 1 & 2) by this date. However, I run an ‘early-bird’ submission date allowing you to submit each part separately. So, for Paper 2, Part 1 (this assignment) the submission date is 13th January 2022.</p> <p>You should submit your work by the 3pm deadline on your chosen date. You should submit your work to the Blackboard drop-box which is available via MyDay. You are required to keep a copy of work handed in.</p> <p>See the University’s guide to uploading and submitting assessment items via Blackboard: https://help.blackboard.com/Learn/Student</p> <p>If you have issues with Blackboard, Turnitin or PebblePad you will need to contact tel@worc.ac.uk</p>

How will my assignment be marked?	<p>Specific marking criteria for your assignment is provided in the Grading Matrix within this document.</p> <p>You are strongly advised to check your completed work against the Grading Matrix to ensure have completed all areas required before you submit it.</p> <p>Please consult the document on the website which provides a glossary of terms used in this assignment and the grading matrix.</p> <p>You should also ensure you adhere to the word limit / word count stated in your assessment brief document, details of which can be found in the University's Assessment Policy http://www.worc.ac.uk/aqu/documents/AssessmentPolicy.pdf</p>
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L6 Grading Matrix for Comp3402 Position Paper 2 (Part 1)

This matrix captures the assessment criteria for this part of the coursework.

Student Number/Name:	Academic Year and Semester: <i>2021-22 AS</i>	Learning Outcomes: 4. Critically evaluate the structure and function of autonomous intelligent systems.
Module Code / Title: <i>Comp3402 Nature of Computing</i>	Assignment No/Weighting: <i>Ass 2 (part 1). Weighting 1/6</i>	
	Assessment Title: <i>Position Paper 2 (Part 1)</i>	

To best understand this matrix, start by reading the 'baseline' grade C

	Knowledge and understanding		Autonomy in Learning		Communication
	Option 1	Option 2	Option 1	Option 2	
	Investigation and Data Analysis	Coders: Coding, Shorter Investigation and Analysis	Investigations of Air Flow around single turbines and within a wind farm	Research into the place of Wind Energy in our future energy sources	Well-written Paper
	45		45		10
A	Investigation and analysis are both comprehensive AND detailed.	Coding and analysis are both comprehensive AND detailed.	Investigation and analysis are both comprehensive AND detailed.	Comprehensive AND detailed discussion of Wind Energy in our future.	Position is coherent AND persuasive.
B	Comprehensive OR detailed investigation and analysis	Comprehensive coding with associated analysis OR detailed analysis of basic code.	Comprehensive OR detailed investigation and analysis	Comprehensive OR detailed discussion of Wind Energy in our future.	Position is coherent.
C	Investigation and Analysis of one scenario correctly discussed	Code correctly implements the associated mathematical model. Supporting investigation and analysis.	Investigation and Analysis of one scenario correctly discussed	Discussion of the place of Wind Energy in our future.	Statement of position in clear language.
D	Attempt at Investigation and Analysis, though there may be some errors.	Attempt at coding, though this may not correctly support the mathematical model.	Attempt at Investigation and Analysis, though there may be some errors.	Attempt at a discussion, though there may be factual errors, or not enough material presented.	Statement of position is too short. Spelling and grammar may contain errors.
F-	Little or no attempt at the Investigation.	Code presented is non-functional	Little or no attempt at the Investigation.	Little or no attempt at a discussion.	Little or no statement of position.

Feedback on your assignment.

Please review this feedback and use it to develop your work in your next assignment in this and your other modules. If anything is unclear, please ask the marker.

Aspects done well and why:			
Aspects for improvement and why:			
Development for future assignments:			
How successful completion of this assignment helps your employability and achievement of graduate attributes:			
Grade awarded:		Marker:	Moderator*:

** This person is responsible for moderating a sample of student work for this module. Your work may, or may not, have been included in this sample.*

I do not want my work to be used anonymously to help future students

RESULTS ARE PROVISIONAL UNTIL AGREED BY THE BOARD OF EXAMINERS