

Assignment Brief: Comp2403 Robotics 2021-22

Assignment 1	<i>Viva-voce Examination</i>
Word Limit or equivalent (e.g. time)	20-30 minute exam.
Weighting	100%
Learning Outcomes Assessed	<ol style="list-style-type: none"> 1. Implement and evaluate robot control architectures 2. Apply the theory of robot kinematics. 3. Evaluate a range of sensor and motor-drive systems. 4. Design, build and test a robot application to solve a given problem.
Submission date	The <i>vivas</i> will take place during Examination Week 10 th January – 14 th January 2022; a schedule will be agreed. You must upload a participation sheet to Blackboard by 15:00 Monday 17 th January 2022. You must upload your portfolio to Blackboard by Tues 4 th January 2022.
Feedback date	All assignment feedback will be issued on the 20 th working day following the submission deadline. Feedback will be released on: Monday 14 th February
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?	<p>The assessment is an Examination by <i>viva voce</i>. This is a 20–30-minute one-to-one conversation with your tutor. This will be based on a portfolio of work which you will assemble during the module sessions.</p> <p>The portfolio must contain at least one item aligned to each learning outcome.</p>
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How should I present my work?	<p>Divide your portfolio into 4 sections, one for each learning outcome.</p> <p>Each section should contain a good mix of visual material. Typically this will include (i) code snippets, (ii) diagrams such as flow charts or state machines, (iii) photos of your robots, (iv) design drawings, (v) tables and graphs of data.</p> <p>Any text in your document will be for your benefit, to aid as an aide-memoire when you are preparing for the exam. Text will not be read in the exam.</p> <p>You do not need to cite any journal articles in this assignment.</p>
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<p>How can I obtain guidance on my assignment?</p>	<p>You will have the opportunity for a mock <i>viva</i> in class. This will happen w/c 22nd November 2021.</p> <p>Assessment briefings will be given at the start of the module and also during w/c 22nd November 2021.</p>
<p>How and when do I hand my assignment in?</p>	<p>Your work must be word-processed/typed and should clearly show your student number. You should submit your portfolio by the 3pm deadline on Tues 4th January 2022. You should submit your work to Blackboard 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>
<p>How will my assignment be marked?</p>	<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>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>

Grading Matrix for Comp2403 Assignment 1

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

Student Number/Name:		Academic Year and Semester:	2021-22 Semester 1	Learning Outcomes: 1. Implement and evaluate robot control architectures 2. Apply the theory of robot kinematics. 3. Evaluate a range of sensor and motor-drive systems. 4. Design, build and test a robot application to solve a given problem.
Module Code:	Comp2403	Assignment No/Weighting:	1 100%	
Module Title:	Robotics	Assessment Title:	<i>Viva Voce Examination</i>	

Assessment Criteria

	Knowledge and Understanding		Autonomy in Learning	Communication
Grade	Annotated Code	Critical Evaluation	Evidence of Planning	
%	30	30	30	10
A	Annotated code is both comprehensive AND detailed	Evaluation is both comprehensive AND detailed	Design and build discussion is comprehensive AND detailed.	The conversation shows shared thinking AND exploratory talk.
B	Comprehensive OR detailed annotated code.	Comprehensive OR detailed evaluation.	Design and build discussion is comprehensive OR detailed.	The conversation shows shared thinking OR exploratory talk.
C	Annotated Code presented.	Evaluation of how robot behaviour and code are related.	Discussion around the design and build of a solution	Conversation covers all 4 learning outcomes.
D	Attempt to annotate code.	Attempt at evaluation, but may contain errors	Attempt at including design and build discussion	Conversation covers 2-3 learning outcomes
Fails	Little or no attempt to annotate code.	Little or no attempt at evaluation.	Little or no attempt at including design and build discussion	Conversation covers less than 2 learning outcomes.

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