

**Assignment Brief: Comp2403 Robotics 2020-21 Sem1**

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| <b>Assignment 001</b>                       | Voice-recorded answers to questions on portfolio of work.   |
| <b>Word Limit or equivalent (e.g. time)</b> | 35 minutes of voice recording   |
| <b>Weighting</b>                            | 100%  |
| <b>Learning Outcomes Assessed</b>           | <ol style="list-style-type: none"> <li>1. Demonstrate an understanding of robot control architectures.</li> <li>2. Apply the theory of robot kinematics.</li> <li>3. Implement a range of sensor and motor-drive systems.</li> <li>4. Design, build and test a robot application to solve a given problem.</li> </ol> |
| <b>Submission date</b>                      | <ul style="list-style-type: none"> <li>• Portfolio: Monday Jan 4<sup>th</sup> 2021 by 15:00 via Blackboard</li> <li>• Voice recording: Wed Jan 13<sup>th</sup> 2021 by 15:00 via Blackboard</li> </ul>  |
| <b>Feedback date</b>                        | All assignment feedback will be issued on the 20 <sup>th</sup> working day following the submission deadline. Feedback will be released on: Wednesday 10 <sup>th</sup> February 2020 or before.   |
| <b>Module Leader</b>                        | Colin Price <a href="mailto:c.price@worc.ac.uk">c.price@worc.ac.uk</a> CHLG020  |
| <b>Verified by</b>                          | Pete Moody  |

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

***You are expected to plan your time and work to manage your overall assessment workload.***

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| <p><b>What do I need to do?</b></p>                                       | <p>During the module sessions, you will assemble a portfolio of work e.g., as a Word document. This portfolio should contain e.g., (i) code snippets or complete programs where appropriate, (ii) diagrams or screenshots of a robot in the Webots environment, (iii) links to movie-clips created with Webots, (iv) results of your investigations.</p> <p>You will submit your portfolio to me by the date below. I will then email you 4 questions on your portfolio, and you will <b>voice record</b> your answers to these, and submit this to me for grading. There will be one question for each learning outcome. I will grade the voice recording and not the portfolio. The voice recording should contain <i>explanations</i> of your work.</p> <p>Note that for the highest grades, you must include some original material not seen in class. This could e.g. include citations of journal articles, use of different robots, and is likely to be associated with your Design-Build-Test mini project.</p> |
| <p><b>How should I present my work?</b></p> <p><b>Report Template</b></p> | <p>You should organize your portfolio into 4 sections, one per learning outcome. It is essential that you put page numbers into a footer, and your NAME into the header.</p> <p>You should save your work with the title <b>Comp2403-Ass01-Student Name</b>.</p> <p>References (use the University Harvard referencing system, support is available through the library <a href="http://www.worc.ac.uk/library/guides/study-skills/referencing">www.worc.ac.uk/library/guides/study-skills/referencing</a>)</p>   |
| <p><b>How can I obtain guidance?</b></p>                                  | <p>This document provides details of the assessment. There will also be an oral briefing conducted in week 1 (w/b 21<sup>st</sup> September 2020). You will have opportunities to show your portfolio to your tutor as this is developed. You will be invited to make a mock voice-recording e/c 23<sup>rd</sup> November 2020.</p> <p>You must demonstrate the assignment you submit is your own work and that it does not fall foul of plagiarism (copying someone else's work without an appropriate attribution). The library guide will provide more advice and support <a href="http://libguides.worc.ac.uk/guides/study-skills/plagiarism">http://libguides.worc.ac.uk/guides/study-skills/plagiarism</a>.</p>   |
| <p><b>How and when do I hand my assessment in?</b></p>                    | <p>Your work must be word-processed/typed and should clearly show your student number. You should submit your portfolio to Blackboard by the 3pm deadline on Monday Jan 4<sup>th</sup> 2021. You should submit your voice-recording to Blackboard by 15:00 on Wed 13<sup>th</sup> Jan 2021.</p> <p>See the University's guide to uploading and submitting assessment items via Blackboard: <a href="https://help.blackboard.com/Learn/Student">https://help.blackboard.com/Learn/Student</a></p> <p>If you have issues with Blackboard you will need to contact <a href="mailto:tel@worc.ac.uk">tel@worc.ac.uk</a></p>  |

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| <p><b>How will my assignment be marked?</b></p>  | <p>Specific marking criteria for your assignment is provided in the Grading Matrix, which can be found on page 5.</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 <a href="http://www.worc.ac.uk/aqu/documents/AssessmentPolicy.pdf">http://www.worc.ac.uk/aqu/documents/AssessmentPolicy.pdf</a></p>   |
| <p><b>How will I get feedback?</b></p>   | <p>All assignment feedback will be issued on the 20th working day following the submission deadline on Wednesday 10<sup>th</sup> February 2010 or before.</p> <p>In addition to formal assignment feedback, you will receive feedback during lectures, workshops and assignment briefing sessions to help you improve your learning. This feedback may be provided from a variety of activities e.g. tutor-to-student meetings, group and/or class discussions, group activities, etc.</p>  |
| <p><b>What do I do if I have problems which prevent me from submitting my work?</b></p> <p>(</p> | <p><b><u>It is essential that you submit your work, in order to be able to pass the module. However, if you are unable to submit your work on time you must contact your Module Leader or Personal Academic Tutor.</u></b></p> <p>Unless you have an application for mitigating circumstances accepted, if you submit your work late, but within 7 days of the due date, you will have your work marked but the grade will be capped at the minimum pass grade.</p> <p>For full details of submission regulations see Taught Courses Regulatory Framework at:<br/><a href="http://www.worcester.ac.uk/registryservices/documents/TaughtCoursesRegulatoryFramework.pdf">http://www.worcester.ac.uk/registryservices/documents/TaughtCoursesRegulatoryFramework.pdf</a></p> |
| <p><b>What do I do if I am ill or have personal problems?</b></p>                                | <p>There may be occasions when you are unable to submit a piece of assessed work on time or attend an examination or presentation due to exceptional and unforeseen reasons that are outside of your control. If this occurs, you may be able to submit a claim for Mitigating Circumstances. This means that if your claim, which must be supported by independent evidence, is accepted your work will be marked or you will be allowed to resubmit the assessment or retake the examination.</p> <p>Full details of Procedures for Dealing with Exceptional Mitigating Circumstances are available at <a href="http://www.worcester.ac.uk/registryservices/679.htm">http://www.worcester.ac.uk/registryservices/679.htm</a></p>  |

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| <p><b>What will happen if I engage in academic misconduct (cheating)?</b></p> | <p>Academic Misconduct is defined by the University as any attempt to gain an unfair advantage in an assessment or helping another student to gain an unfair advantage. This can involve</p> <ul style="list-style-type: none"> <li>• Using material sources without acknowledging them using a recognised referencing system.</li> <li>• Copy another student’s work.</li> <li>• Allowing another student to copy your work</li> <li>• Claiming that you have undertaken research that you have not e.g. surveys, interviews etc.</li> </ul> <p>If you are suspected of Academic Misconduct you will be referred to the School’s Academic Integrity Tutor and may face further penalties. Penalties may extend beyond the single assignment, and may affect your module grade or even the classification of your final award.</p> <p><b>Academic Misconduct will be included in any reference provided for you be the University.</b></p> <p>Details in your Course Handbook accessible via SOLE and at <a href="https://www2.worc.ac.uk/registryservices/documents/Proceduresforinvestigationofallegedacademicmisconduct.pdf">https://www2.worc.ac.uk/registryservices/documents/Proceduresforinvestigationofallegedacademicmisconduct.pdf</a></p> |
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| <p><b>What if I don’t pass my assignment at my first attempt?</b></p> | <p>DON’T PANIC. In the event you are required to take reassessment you will receive formal notification of this via a letter from Registry Services <b>posted on the SOLE page</b> after the meeting of the Board of Examiners. The letter will normally include a copy of the reassessment task(s). Deadlines for re-assessment can be found in the University Calendar at <a href="http://www.worcester.ac.uk/registryservices/655.htm">http://www.worcester.ac.uk/registryservices/655.htm</a></p> |
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## Grading Matrix

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

|              |  |  |  |  |  |
|--------------|--|--|--|--|--|
|              | <b>Student Number:</b>   | <b>Academic Year and Semester:</b> 2020-21<br>Semester 1   | <b>Learning Outcomes:</b><br>1. Demonstrate an understanding of robot control architectures.<br>2. Apply the theory of robot kinematics.<br>3. Implement a range of sensor and motor-drive systems.<br>4. Design, build and test a robot application to solve a given problem. |  |  |
|              | <b>Module Code/Title:</b><br>Comp2403 Robotics   | <b>Assignment 1<br/>No/Weighting: 100%</b>                 |  |  |  |
|              | <b>Occurrence:</b>   | <b>Assessment Title:</b><br>Portfolio with Voice-Recording |  |  |  |
|              | <b>Assessment Criteria</b>   |  |  |  |  |
| <b>GRADE</b> |  |  |  |  |  |
| A            | Correct in-depth explanations to all four questions. The original material strongly supports one or more of your explanations. |  |  |  |  |
| B            | Correct in-depth explanations to all four questions. The original material supports one explanation.                           |  |  |  |  |
| C            | Correct explanations to three or more questions, though one explanation may be weaker.   |  |  |  |  |
| D            | Correct explanations to two questions, with two explanations weaker.   |  |  |  |  |
| Fail (E-H)   | Fewer than two correct explanations.   |  |  |  |  |
|              | <b>General comment:</b>  |  |  |  |  |
|              | <b>What you can do better in future assignments:</b>   |  |  |  |  |
|              | <b>How successful completion of this assignment helps your employability:</b>  |  |  |  |  |
|              | <b>Assignment Grade:</b>   | <b>Marker:</b><br>Colin Price                              | <b>Moderator*:</b><br>Pete Moody   |  |  |

\* 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**