

**Assignment Brief: Comp3352 Modelling and Simulation 2020-21 S2**

<b>Assignment 1</b>	Report1
<b>Word Limit or equivalent (e.g. time)</b>	You may achieve the maximum grade for 750 words, however there is no word limit
<b>Weighting</b>	
<b>Learning Outcomes Assessed</b>	1. Evaluate the various approaches to modelling real-world scenarios 3. Conduct planned simulations using the programmed model to verify and validate the model
<b>Submission date</b>	Friday 12 <sup>th</sup> March 2021
<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: Tuesday 20 <sup>th</sup> April 2021
<b>Module Leader</b>	Colin Price
<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.***

<p><b>What do I need to do?</b></p>	<p>During the first few sessions, you will complete activities introducing you to the “tools” of modelling and simulation. You need to follow the session guidance and make notes of (i) any code you have written (ii) tables and graphs of results of any investigations you are asked to make, (iii) screenshots of simulations you have performed (iv) and additional material you choose to research. <b>You do not need to cite any journal articles in this assignment.</b></p>
<p><b>How should I present my work?</b></p> <p><b>Report Template</b></p>	<p>Organise your report into two sections, one for each learning outcome. Here is <b>guidance</b> what to put in the sections.</p> <p><b>Section 1. Verification and Validation</b></p> <p>1.1 Explain what these terms mean.  1.2 Use the appropriate session materials to explain how a model is verified  1.3 Use the appropriate session materials to explain how a model is validated</p> <p><b>Section 2. Compare and contrast the UDK and Webots simulations.</b></p> <p>2.1 Discuss your opinion about the value of a 3D simulation  2.2 Discuss the features of the UDK-based simulations you have made  2.3 Discuss the features of the Webots-based simulations you have made  2.4 Critically compare the UDK and Webots simulator</p> <p>You should save your work with the title Comp3352-Ass01-Student Number.</p> <p><b>Put your student number in the header and page number in the footer.</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>An overview of this assignment will be given during the first module session. In addition, the session materials will indicate how each session contributes to the learning outcomes assessed in the assignment.</p> <p>You will receive formative feedback on your report draft during the session w/c 2nd Feb 2021.</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 work by the 3pm deadline on <b>Friday 12<sup>th</sup> March 2021</b>. You should submit your work to Blackboard which is available via your student portal. <b>You are required to keep a copy of work handed in.</b></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, Turnitin or PebblePad you will need to contact <a href="mailto:tel@worc.ac.uk">tel@worc.ac.uk</a></p>
<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><b>How will I get feedback?</b></p>	<p>All assignment feedback will be issued on the 20th working day following the submission deadline. Tuesday 20<sup>th</sup> April 2021</p> <p>You will receive formative feedback on your report draft during the session w/c 2nd Feb 2021.</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><b><u>It is essential that you submit your work, in order to be able to pass the module.</u></b> <b>However, if you are unable to submit your work on time you must contact your Module Leader or Personal Academic Tutor.</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: <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>
<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>
<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>

## 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 S2	<b>Learning Outcomes:</b> 1. Evaluate the various approaches to modelling real-world scenarios 3. Conduct planned simulations using the programmed model to verify and validate the model	
	<b>Module Code/Title:</b> Comp 3352 Modelling and Simulation	<b>25%</b>		
	<b>Occurrence:</b> A	<b>Assessment Title:</b> Report 1		
	<b>Assessment Criteria</b>			
<b>GRADE</b>	Evaluation of approaches		Verification and Validation	
<b>A</b>	Persuasive comparison of UDK and Webots simulations supported by well-chosen examples.		Correct validation and verification with clear presentation of percentage errors.	
<b>B</b>	Good comparison of UDK and Webots using one example for each.		Correct validation and verification with percentage errors calculated.	
<b>C</b>	Good comparison of UDK and Webots.		Correct validation and verification, though percentage errors may be incorrect or missing.	
<b>D</b>	Attempt at a comparison though this may be under-developed or contain some errors.		Good attempt at both verification and validation.	
<b>Fail: E-G</b>	Attempt at comparison, but it is incorrect or contains multiple errors.		Missing verification or validation.	
	<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> Colin Price	<b>Moderator*:</b> 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**