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##### School of Computer of Science

##### ASSIGNMENT BRIEFING SHEET (2017/18 Academic Year)

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| **Assignment Title** | Course Work Assignment 1 | **Submission Date** | 13 - 14/11/2017 |
|  |  |  |  |
| **Module Title** | Artificial Intelligence | **Module**  **Code** | 5COM1056 |

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| **Tutor** | **Rene te Boekhorst** | **GROUP or INDIVIDUAL Assignment** | PAIRS |

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| **FOR INDIVIDUAL ASSIGNMENTS – *STUDENT TO COMPLETE***   |  | | --- | | **(Comments on this assignment by students can be made on the back of the assignment briefing sheet).**  By completing **BOX A** below, I certify that thesubmitted work is entirely mine and that any material derived or quoted from the published or unpublished work of other persons has been duly acknowledged. **[ref. UPR AS12, section 7 and UPR AS14 (Appendix III)].** I also certify, that any work with human participants has been carried out under an approved ethics protocol in accordance with UPR RE01.  *Please print your forename and surname in capitals and provide your ID (srn) number.* |   **BOX A**   |  |  |  |  | | --- | --- | --- | --- | | **Student Forename**  *(in CAPS please)* | **Student Surname**  *(in CAPS please)* | **Student ID Number (SRN)** | **Signature of Student** | |  |  |  |  | |

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| **FOR GROUP ASSIGNMENTS - *STUDENTS TO COMPLETE***   |  |  |  | | --- | --- | --- | | ***Group Name/Number (if allocated by module team****)* |  |  |  |  | | --- | | **(Student comments on this assignment can be made on the back of the assignment briefing sheet)**  By completing **BOX B** below, we certify that the submission is entirely ours and that any material derived or quoted from the published or unpublished work of other persons has been duly acknowledged. **[ref. UPR AS/C/6.1, section 7 and UPR AS/C/5 (Appendix III)].****)].** We also certify, that any work with human participants has been carried out under an approved ethics protocol in accordance with UPR RE01  *Please print your forenames and surnames in capitals, provide your; - ID numbers, actual time spent on the assignment and your signatures. By signing the submission you certify that this work represents equal contributions from all team members.* *If this is not the case, the module leader* ***must*** *be informed before submission.* |   **BOX B**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Student Forename *(in CAPS please)* | Student Surname *(in CAPS please)* | Student ID Number (SRN) | Actual Time Spent by each Student (hours) | Signature of Student | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |

**This sheet must be submitted with the assignment, signed and either BOX A or B filled in.**

**LATE SUBMISSION WILL ATTRACT A STANDARD LATENESS PENALTY.**

1. For undergraduate modules, a score of 40% or above represents a pass mark.
2. For postgraduate modules, a score of 50% or above represents a pass mark.
3. For work submitted up to 5 working days late marked is capped to a bare pass (40% for undergraduate and 50% for postgraduate).
4. For work submitted more than 5 working days a mark of zero will be awarded for the assignment.

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| **THE ASSIGNMENT TASK:** to set up and demonstrate a simulation in NetLogo that models the movement of an autonomous vehicle (a kind of “driver-less” car) called Auto-Car. The vehicle is to stay on a road, situated in an area that is bordered by walls, and does so by using information provided by two sensors: a device that registers objects when the car is in “physical” contact with them (a “bump-sensor”) and an ultrasound sonar that measures distances to objects further away (the walls). However, the car is not only troubled by a systematic error (bias) in the actuators driving wheel rotation but also suffers from random error (“noise”) in its motor response to bumping against objects (the wall) and in its ultrasound detection. |
| **MODULE LEARNING OUTCOMES ASSESSED BY THIS ASSIGNMENT:**  1. Produce simple implementations of some of the fundamental methods of A.I.  2. Use the produced implementations to experiment with principal concepts |
| **SUBMISSION REQUIREMENTS:**  Demonstration in class |
| **FEEDBACK FROM THIS ASSIGNMENT**  During demonstration |
| **MARKS AWARDED FOR:** See Attached Description of Course Work Assignment 1 |

### DEADLINES AND ASSIGNMENT WEIGHTINGS

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| 1 | This assignment is worth | | 25% | | of the **overall assessment** for this module. | | | |
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| 2 | You are expected to spend about | | | 10 | | Hours to complete this assignment to a satisfactory standard | | |
|  |  | | |  | |  | | |
| 3 | Date assignment set | 23 / 10/ 2017 | | | | Date completed assignment to be handed in | 14 / 11 / 2017 | |
|  |  |  | | | |  |  | |
| 4 | Target date for return of marked assignment | | | | | 21/ 11 / 2017 |  |  |

**INTERNAL MODERATION**

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| This assignment has been internally moderated.  I confirm:   * That the assignment set, meets the requirements of the module and that the brief provides appropriate content for students to successfully complete the assignment. * That the assessment is at an appropriate level and matches QAA level descriptors and is an appropriate form of assessment within the total range of assessments for this module. * That the marking scheme is attached and that students can determine how marks are allocated. * That this assessment can be completed **and** marked within University timeframes, and provides detailed feedback (more than just a grade) that supports learning.   . | ***Moderator name, signature and date*** |