## COMP 329 2017 Assignment 01 - Mapping and Occupancy Grids

Video

Assessment of Demonstration/Video - 40% of Final Mark Based on Movement (20%), Use of Display (10%) & Understanding (10%)

Demonstration

Group:	Assessor:	Date:
Group members pre	sent	
Group members abs	ent	
Movement and Obs	tacle Avoidance (20% of Assignme	ent Mark)
Grade	Grade Indicator	
F (0-7) D (8-9) C (10-11) B (12-13) A/A+ (14-20)	Strategy is goal driven e.g. navigate	g. go round obstacle. cs e.g. navigate a given path across arena.
Grade/Mark Awarded	Assessor's Comment	
Mapping and Use o	f Display (10% of Assignment Mar	k)
Grade	Grade Indicator	
F (0-3) D (4) C (5) B (6) A/A+ (7-10)	There is little or no evidence of mapping.  Simple (non-graphical) mapping data evident on LCD screen that corresponds to the arena.  A basic graphical map, e.g. binary occupancy, is displayed on the LCD screen.  Reasonable attempt at probabilistic occupancy grid shown on the LCD screen.  Good probabilistic occupancy grid (inc different displays for numerical details) shown on the LCD screen.  A+ (8-10) will be awarded for ingenuity and style.	
Grade/Mark Awarded	Assessor's Comment	

## Understanding and Explanation (10% of Assignment Mark)

Grade	Grade Indicator	
F (0-3) D (4) C (5) B (6) A/A+ (7-10)	Little or no explanation offered by team members.  Basic explanation of strategy offered by some team members.  Basic explanation and reasonable answers to questions by most team members  Good explanation and answers involving all team members.  In addition, explanation shows good insight into the assignment.  A+ (8-10) will be awarded for demonstrating excellent insight, e.g. beyond the scope.	
Grade/Mark Awarded	Assessor's Comment	

## **Additional Notes for Students**

- You will be given time to prepare your demonstration. You need to ensure that before the start of the demonstration, your program is uploaded to the EV3 robot, any Bluetooth pairing or Wifi is set up, and preparation of the arena is complete.
- You will have a time limit of 15 minutes and will be assessed on one full run of your program. In case of a technical difficulty, you will be allowed to stop and restart your program once, and the second run will be assessed, within the same 15 minute time limit.
- You will be asked questions about your solution during and after the run of your program, to assess your understanding of your solution and its implications beyond the scope of the assignment.
- The assessment grid gives an indication of the level of performance expected at each grade point, NOT CRITERIA THAT YOU MUST ACHIEVE to get each grade. The assessors will compare your performance to these levels to determine the grade/mark for your solution, which may be different.
- The assessment of code and demo contribute towards 80% of the Assessment mark. The final 20% will be based on the individual performance, judged by the peer review form and the log of individual activity.