

TC2343

LAB07 PROJECT PROPOSAL AND EVALUATION (30%)

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FTSM UKM

Date: 6 May 2021 Time: 9am-11am

Reference

eBOOK ROS Robot Programming (C++)

eBOOK Programming Robots with ROS (Python) –

Project Instructions

1. Work in a group of two (maximum), decide a project name and application.
2. Project should highlight the use of robot and artificial intelligent techniques in solving service robot problem.
3. From week 7 until week 10, you will be developing a robotic project by turtlebot3 or TIAGO simulation. Each project will be evaluated based on the following rubric:

- Project report (in Malay for Malaysian)	25 marks
- Algorithm (detection or path planning)	15 marks
- Gazebo 3D model	5 marks
- Presentation slide and Demo	10 marks
- Q&A Individuals	5 marks
- Peer evaluation	% of all mark
Total	60 marks ~ 30% carry mark

4. Each report should contain the following criteria:

- Language (In Malay for Malaysian)	5 marks
- Pengenalan (Intro)	5 marks
- Masalah kajian (Problem)	5 marks
- Kaedah penyelesaian (Methodology)	
o Pembangunan ruang simulasi Gazebo	5 marks
o SLAM dan navigasi antara ruang	10 marks
o Pengecaman imej atau tag AR	5 marks
- Perbincangan (Discussion)	10 marks
- Rajah dan penerangan (Figure and explanation)	5 marks
- Kesimpulan (Summary)	5 marks
- Rujukan (Reference)	5 marks
- Total	60 marks ~ 15/30%

“HAPPY ROBOTING”

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