UNIVERSITI TEKNIKAL MALAYSIA MELAKA	Fakulti Teknologi dan Kejuruteraan Elektronik dan Komputer **Universiti Teknikal Malaysia Melaka**

BEEL 2135 - Embedded System Programming Tool

Semester 1 Session 2023/2024

PROJECT: Intelligent Traffic Controller

Name & Student ID:	**1.**
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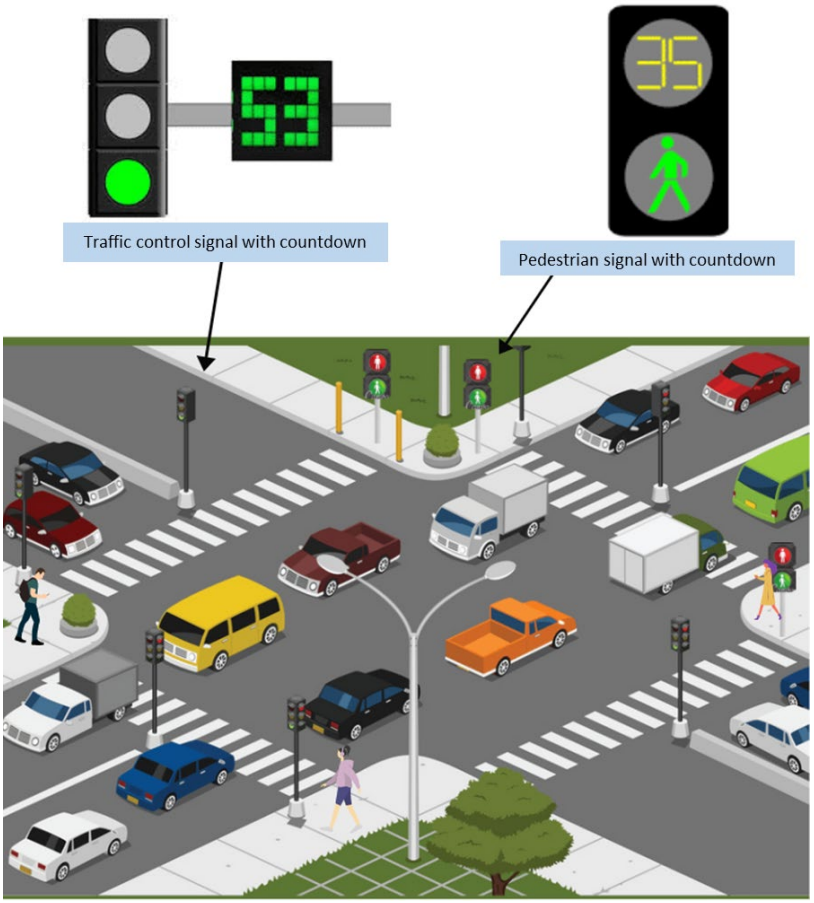
	5.
Name of Instructor(s):	**1.**
	2.

Remarks:	**Verification Stamp:**
	Total Marks:

Document Number	Author Name
ESPT(PROJECT)	HASRUL

INSTRUCTION:

Traffic light system does not only monitor and control the flow of automobiles through the junction of many roads, but it also minimizes the waiting time of the road users including pedestrians. Therefore, an Intelligent Traffic Controller should be designed to ensure smooth traffic flows. In your system, it should include 2 types of traffic signal which are traffic control signal and pedestrian signal to control vehicles and pedestrians, respectively. Traffic control signal must follow a fixed time running mode while pedestrian signal must be activated based on pedestrian existence in a particular area. Interrupt technique must be included to provide a smooth flow between both traffic control signals. Design your own Intelligent Traffic Controller by constructing the simulation using Proteus ISIS.



Clearly show all possible conditions chosen in designing your system. Provide the following items in the report:

1. Abstract
2. Introduction
3. Methodology
4. Results
5. Discussion
6. Conclusion
7. References