Project Design Phase-I
Proposed Solution
Template

Date	02 November 2022
Team ID	PNT2022TMID12332
Project Name	Project – Signs With Smart Connectivity For Better Road Safety
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	In present Systems the road signs and the speed limits are Static. But the road signs can be changed in some cases. We can consider some cases when there are some road diversions due to heavy traffic or due to accidents then we can change the road signs accordingly if they are digitalized. This project proposes a system which has digital sign boards on which the signs can be changed dynamically.
2.	Idea / Solution description	This project proposes a IOT Based Smart Vehicle Monitoring system(SVMS). Using IOT Radio-Frequency Identification Device(RFID), GPS, GSM, WIFI, WSN Networks Eye Blink Sensor, Acceleration Sensor, Gyroscope Sensor, Impact Sensor, Cloud Computing. Basically sensors and electronics are connected to each other and transmitting data to one another over the internet.
3.	Novelty / Uniqueness	The uniqueness of our proposed project is IoT offers a unique blend of smart system which can connect identifiable devices through internet using a set of standard protocols. First, between vehicles-to vehicle that is based on connection between two or more nearby vehicles. Second, is vehicle-to-infrastructure, it is a connectivity with the external infrastructure. Third, is vehicle-to-device, this includes connection with the hardware or internal/external devices.
4.	Social Impact / Customer Satisfaction	Using this project, drivers and receive information about their status (colour and when they will change), which reduces the number of accidents and improves circulation.
5.	Business Model (Revenue Model)	This project is not only for better road safety, Smart connectivity technology can be used in network through protocols that automatically identify what things are (deep learning technology), and validate,

		confirm, and route transactions (Blockchain technology) within the network
6.	Scalability of the Solution	The main advantage of this project is it's IOT based features which are very crucial to driverless cars and wireless digital traffic sign post.