Skills Development Project- ICT 3209

Progress Report – 01 (On or before 8th March 2022)

Date -:

Group Name -: Trouble Makers

Content of the Discussion and Work-:

This project schemes need to be implemented by bringing in sensor-based automation technique in this field of traffic signaling system. To optimize traffic problem, we have made a framework for a smart traffic control system. This research proposes a simple, low cost and real-time traffic light control system, aimed at removing many flaws and improving traffic management. The next attractive feature of the system is its preference given to the emergency vehicles. This is done by providing special communicating devices that can control the traffic lights so that lane opens and allow that vehicle to pass the signal. So far, we had gone through with many videos, audio and research articles. During the literature survey we got an opportunity to look closely into the problem that people are facing traffic congestion in the current environment. In this research, we are trying to develop a simple, low cost and real time

So far we have done all the documentation like SRS, SDS.We are currently discussing implementation.We discuss the functions, advantages and disadvantages of the hardware used for this research.

traffic light control system through the following factors:

1. The basic hardware concept in the methodology is the smart traffic light control system is composed of two separate devices: the traffic master controller and the portable controller.
2. The controller will be fitted with traffic lights at the road junction. Traffic lighting control system mainly consists of The Arduino Mega 2560 microcontroller is the heart of the system, housed above the IR sensors.
3. For emergency vehicles problem, ZigBee module receives the command orders form the portable controller and calls the corresponding emergency subroutines. The portable controller commands the master controller by means of ZigBee transceiver that communicates wirelessly with the other ZigBee component.

Requirements If any: Some hardware components are needed to complete our research effectively.

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