SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ASSESSMENT OF THE PROJECT 2019-20

Title of the Project	**Self Adaptive Traffic Light Control System**
Student Names	1. Suyash Sinha : A-68 2. Vaibhav Mishra : A-70 3. Vedant Khairnar : A-71 4. Yash Sharangpani : A-73
Semester & Shift	VI(Shift-1)
Guide Name	**Prof. J.Sanghavi**

Criteria
1. Classification and Technology   Self adaptive traffic light control system   Software used:YOLO,python.
2. Project Objectives   To build a self adaptive traffic light control system which will set the signal timing on according to the density of traffic with the help of cameras and image processing modules. This will lead to efficient utilization of infrastructure and will reduce the time spent waiting at the traffic signal.
3. **Methodology and Implementation**   The solution can be explained in four simple steps: 1.Get a real time image of each lane.   2.Scan and determine traffic density.   3.Input this data to the Time Allocation module.   4.The output will be the time slots for each lane, accordingly.
4. Project Outcome   The goal of this work is to improve intelligent transport systems by developing a Self-adaptive algorithm to control road traffic based on deep Learning. This new system facilitates the movement of cars in intersections, resulting in reducing congestion, less CO_2 emissions.
5. Success of the project and Industry Involvement   Very useful application for today's congested world.   Application has capability to impact today's traffic condition.

List of Publication:

Sr.No.	Title of Paper	Name of Journal / Conference	Place and Date of Publication
1	Intelligent transportation systems	IEEE Vehicular Technology Magazine, vol. 5, no. 1, pp. 77–84	2010
2	A Self-Adaptive Traffic Light Control System Based on YOLO	International Conference on Internet of Things, Embedded Systems and Communications (IINTEC), pp. 16-19	Hammamet, Tunisia, 2018

PROJECT SCREENSHOTS

Typical traffic signal

Screenshot from CCTV footage

Dr. M.B. Chandak   **Prof. J.Sanghavi**
  HOD,CSE   **Project Coordinator**