

COLLEGE NAME: PRIYADARSHINI ENGINEERING COLLEGE

COLLEGE CODE : 5119

COURSE NAME: Internet Of Things (IOT)

GROUP NUMBER: 2

PROJECT TITLE: PUBLIC TRANSPORTATION OPTIMIZATION.

PROJECT SUBMITTED TO: SKILL UP ONLINE

YEAR: 3rd

DEPARTMENT: ELECTRONICS AND COMMUNICATION ENGINEERING.

SEMESTER: 5th

GROUPMEMBERS: PRAVEEN.SR [511921106022]

SANTHOSH.AR [511921106029]

HARISH.K [511921106007]

MUGUNDHAN.P [511921106018]

GUIDED BY: Dr.A.BANUPRIYA.HOD/ECE

SPOC NAME: Dr.R.THENMOZHI.HOD/EEE

**PUBLIC TRANSPORTATION OPTIMIZATION**

**Problem statement**:

* In recent times, people's are facing the problem of managing their

time in case of transportation lines bus or train.

* Passengers might waste a lot of time waiting for arrival of bus or train due to time delay .
* Routes might be confusing and people may not know which has on train to take.
* Public transportation lists often suffer from Breakdown and service disruption.

* Insufficient information about public transportation options can discourage passengers using public transit.
* The lack of real-time communication and update about delays on disruptions can cause inconvenience for passengers
* It is difficult for passengers to plan their journeys due to often lack of user friendly many cities face challenges with their public transportation Systems, including late buses and overcrowded trains leading to inconvenience .

**Problem solution**:

* Integrate loT sensors in public transportation vehicles to monitor ridership, track locations, and predict bus or train arrival times. This data can be shared on a public platform to improve transit services.
* Use sensors such as GPS sensor to monitor location of each vehicle.
* This information is then fed to Arduino and then uploaded to cloud using an esp8266 module.
* This information is then used to monitor the locations of the public vehicle.
* Scheduling public transport and making this information available to the users.