VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590018

Mini Project Report on

"SMART PARK ASSIST"

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

JEEVAN V	4AL21EC036
NAGABHUSHAN H K	4AL21EC053
LAKSHMI P B	4AL22EC403

Under the Guidance of
Dr. Napolean
Assistant professor
Department of E&C Engineering

ALVA'S
Education Foundation®

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Accredited by NBA & NAAC with A+ Grade

MOODBIDRI – 574 225.

2023-2024

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of Alva's Education Foundation®, Moodbidri)

"Shobhavana", Mijar, Moodbidri – 574 225, D.K.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the following students,

JEEVAN V	**4AL21EC036**
NAGABHUSHAN H K	**4AL21EC053**
LAKSHMI P B	**4AL22EC403**

has submitted Project synopsis on **"SMART PARK ASSIST"** for VI Semester B.E. in Electronics & Communication Engineering during the academic year 2023-24. The mini project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

Mini Project Guide

Dr. Napolean

Mini Project Coordinator

Dr. Ganesh V N

HOD

Dr. Dattathreya

H. O. D.
Dept. Of Electronics & Communica
Alva' Institute of Engg. & Technol
Mijar, MOODBIDRI - 574 22.

ABSTRACT

The rapid urbanization and increase in vehicle ownership have led to significant challenges in efficient car parking management. The "Smart Park Assist" project aims to address these challenges by developing a cost-effective, automated car parking solution. Utilizing Arduino microcontrollers, sensors, and actuators, the system is designed to manage parking space utilization effectively, reduce human intervention, and enhance user convenience. The project demonstrates the integration of hardware and software components to create a reliable and scalable parking management system. Additionally, it incorporates real-time data processing and communication to provide instant feedback to users, ensuring a seamless parking experience. The system's modular design allows for easy adaptation and expansion to accommodate various parking lot sizes and configurations. Ultimately, "Smart Park Assist" aims to contribute to smarter cities by optimizing parking operations and reducing traffic congestion.