An aerial photograph of the Rajawade Technological University (RTU) campus. The image shows several multi-story academic buildings with a light-colored facade and many windows. A large green lawn with numerous trees is in the foreground. In the background, more campus buildings and distant city structures are visible under a clear sky. A blue and green diagonal graphic element is in the top-left corner.

RTU - POORNIMA HACKATHON 2021

TEAM – ANONYTECH
IDEA – IOT BASED VEHICLE
PARKING SYSTEM



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Objective

- ❖ The main aim of this project is reduces the risk of finding the parking slots in any parking area.
- ❖ It eliminates the unnecessary traveling of vehicles across the filled parking slots in a city.

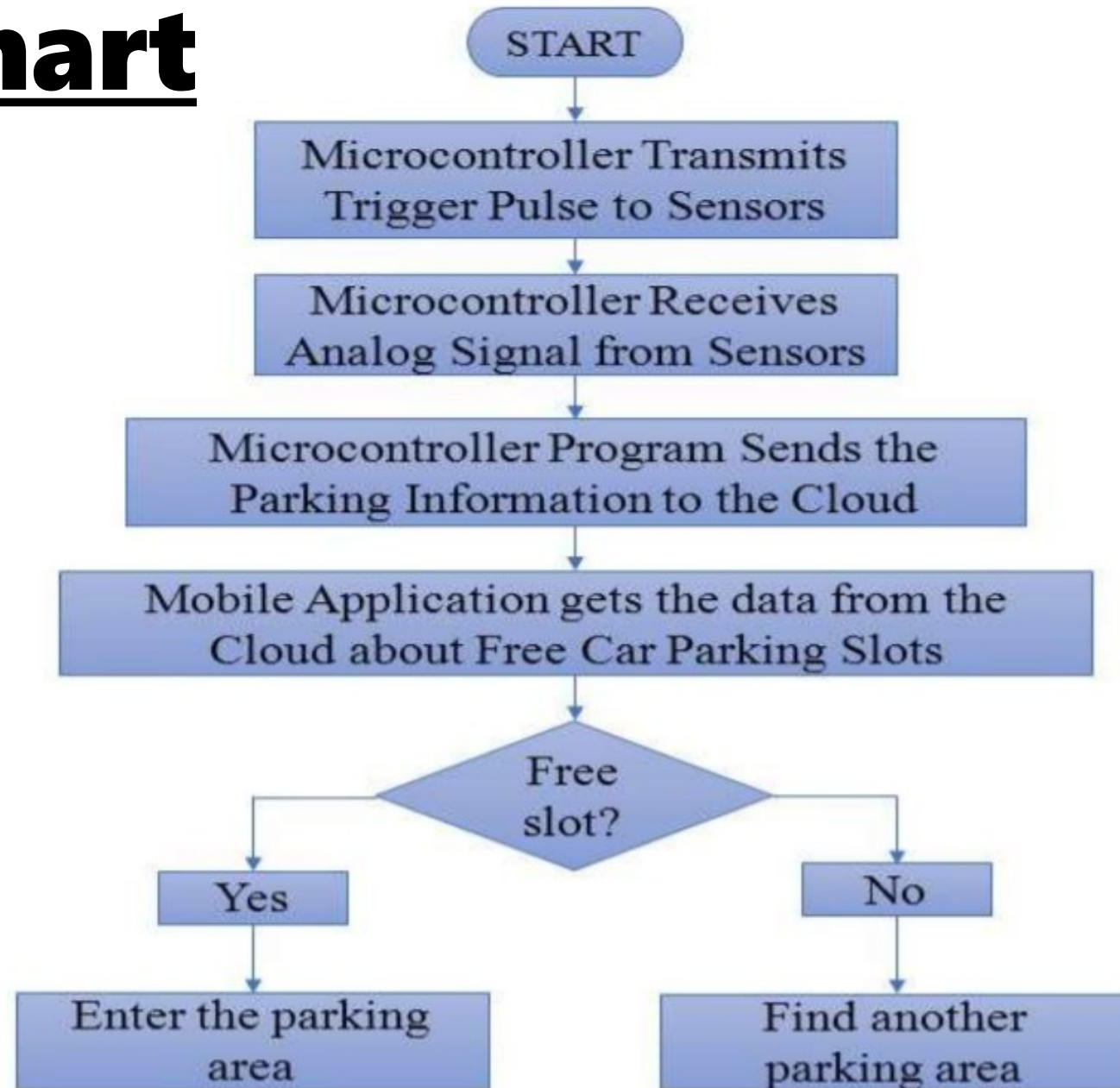
Introduction

- ❖ Smart Car Parking System is an integrated system to organize cars in public areas.
- ❖ All vehicles enter into the parking and waste time for searching for parking slot .

Component description

Hardware	Software
• Nodemcu	• Arduino IDE
• ARDUINO UNO	• Firebase
• IR Sensors	
• Servo Motors	

Flow Chart





Advantages

- ❖ Shorter waiting time at parking place.
- ❖ It saves fuel, money, space and time.
- ❖ Reduced pollution.
- ❖ Reduced traffic.
- ❖ Carbon emission is reduced.
- ❖ Efficiency

Applications

- ❖ The smart car parking system can be implemented in ...
 - Shopping malls
 - Restaurants
 - Theatres



Conclusion

- ❖ This project focuses on implementation of car parking place detection using Internet of Things.
- ❖ The system benefits of smart parking go well beyond avoiding time wasting.
- ❖ Developing a smart parking solutions with in a city solves the pollution problem.