

# Department of Electronics & Telecommunication Engineering



**1.3.2**

## Project Documents



"Shri Gajanan Maharaj Prasanna"

**P. R. Pote Patil Edu. & Welf. Trust's, Group of Institutions,  
College of Engineering & Management, Amravati**

Institute Code : 1107

(Recognized by AICTE, New Delhi, Approved by Govt. of Maharashtra & Affiliated to SGBAU, Amravati)



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- Web. : www.prcem.org, www.prpatilcollege.org

## Department of Electronics & Telecommunication Engineering

### List of Projects with Project Title

#### Class: BE Final Year Sem-8

#### Session: 2021-22

Grp. No.	Name of Student	Project Title	Guide	PRC Member 1	PRC Member 2
1	Mr. Abhijit Katore	Fake Currency Detection and Billing System using Python	Dr. R. D. Ghongade	Dr. G. D. Dalvi	Prof. P. N. Pusdekar
	Mr. Prajwal Bharsakale				
	Mr. Rudresh Pasarakar				
	Mr. Shreyash Nagpure				
	Mr. Ajay Uike				
2	Ms. Vaishnavi Pawar	Smart Quiz for Blind People	Dr. G. D. Dalvi	Dr. R. D. Ghongade	Prof. U. W. Hore
	Ms. Vaishnavi Jadhav				
	Mr. Shubham Javeri				
	Ms. Aishwarya Kale				
	Mr. Pavan Kakad				
3	Ms. Monali Bhutada	IoT based plant monitoring & smart meter with web DB IoT	Prof. U. W. Hore	Dr. G. D. Dalvi	Prof. R. D. Sushir
	Ms. Aachal Wankhade				
	Ms. Rucha Akarte				
	Ms. Vaishnavi Bondre				
	Ms. Priyanka Risodkar				
	Ms. Ankita Wankhede				
4	Ms. Komal S Bansod	Land Use Classification In Amravati District Using Satellite Images	Prof. P. N. Pusdekar	Prof. V. B. Langote	Prof. G. D. Nagose
	Ms. Shreya R. Mohod				
	Ms. Yogita N. Dhokane				
	Ms. Shweta B. Gaikwad				
	Mr. Shreyash P. Pethe				
5	Ms. Chetna Maske	IOT based fire control system for four wheeler	Prof. G. D. Nagoshe	Prof. B. R. Mankar	Prof. V. B. Langote
	Ms. Vaishnavi Bawner				
	Ms. Sakshi Bhonde				
	Mr. Ashiwak Bire				
	Mr. Shantanu Shirbhate				

6	Mr. Virendra N. Kande	Medical supplies Delivery Drone	Dr. V. B. Padole	Prof. S. P. Bhonge	Prof. A. R. Pawade
	Ms. Sayyada A Firdous				
	Ms. Roshani Ande				
	Ms. Rutuja Thakre				
	Mr. Shubham Maske				
7	Mr. Pranay Jawanjal	Smart Cradle	Prof. R. D. Sushir	Prof. P. N. Pusdekar	Prof. A. P. Dhande
	Ms. Samiksha S. Thakur				
	Ms. Aarti Omkarrao Gade				
	Mr. Dinesh V. Wankhade				
	Ms. Dharti D. Khadse				
	Mr. Shardul P.				
8	Mr. Kapil Agrawal	Advance Parking System	Prof. A. P. Dhande	Dr. V. B. Padole	Prof. A. R. Pawade
	Mr. Swapnil Makode				
	Mr. Abhijeet Gupta				
	Mr. Krushna Bhattad				
	Mr. Tilak Chandele				
9	Mr. Hrutwik Dalvi	Weather Monitoring System using IoT	Prof. B. R. Mankar	Prof. G. D. Nagoshe	Prof. V. B. Langote
10	Ms. Rutuja kolhe	Smart Waste Management System In Railway Coaches	Prof. S. P. Bhonge	Dr. V. B. Padole	Prof. A. R. Pawade
11	Ms. Lavina Thakur	Cotton plant disease detection using image based technology	Prof. A. R. Pawade	Dr. V. B. Padole	Prof. S. P. Bhonge
12	Mr. Umesh Pardeshi	IR Radar for Unauthorized Object Detection	Prof. V. B. Langote	Prof. R. D. Sushir	Prof. A. P. Dhande



  
 H.O.D. (EXTC Dept.)  
 P.R.Pote (Patil) College of Engg. & Management  
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**Head of Department**



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## Department of Electronics & Telecommunication Engineering

### Class: BE Third Year Sem-6

Session: 2021-22

## List of Minor Projects

Grp. No.	Name of Student	Topic	Guide
1	Mr. Tejas Chaukhande	<b>Hospital Records</b>	Dr. R. D. Ghongade
	Mr. Karan Chavhan		
	Mr. Sanket Nipane		
	Ms. Tejal Bokad		
	Mr. Ketan Bhopale		
2	Ms. Shivam Satish Pakade	<b>Bidirectional Visitor Counter to Home Appliances</b>	Dr. D. G. Dalvi
	Ms. Sanskruti Pradip Tarhekar		
	Ms. Shital Prakash Wasade		
	Ms. Sharayu Vinay Suryakar		
	Ms. Samruddhi Diwakar Kharbade		
3	Mr. Tejas Ashokrao Randhe	<b>Wireless Notic Board using Arduino</b>	Prof. U. W. Hore
	Ms. Samruddhi Vinod Jawanjal		
	Ms. Ankita Ganesh Sable		
	Ms. Khushi Rajiv Sharma		
	Ms. Pratiksha Bapurao Chawade		
4	Ms. Ankita Eknath Honale	<b>IR-Based Underwater Communication System using Arduino-Nano</b>	Prof. P. N. Pusdekar
	Ms. Komal Surendra Nanote		
	Ms. Neha Vilasrao Bihade		
	Ms. Nivedita Nandkishor kale		
	Ms. Shreya Laxman Supekar		
5	Ms. Asmita Arun Shendurkar	<b>Fingerprint Door Lock</b>	Prof. G. D. Nagoshe
	Ms. Namrata Vilas Lanjewar		
	Ms. Pallavi Rajkumar Damodare		
	Mr. Chetan Sitab Kedar		
	Mr. Saurabh Pramod Kale		
6	Mr. Akash Shivaji Lohe	<b>Distance Measuring Wheel</b>	Dr. V. B. Padole
	Ms. Sakshi Shrikant Madaghe		
	Ms. Sakshi Rajendra Junghare		
	Ms. Shreya Madhav Pote		
	Mr. Aayush kalbande		

7	Ms. Sakshi Ashokrao Sherekar	<b>Smart Parking System</b>	Prof. R. D. Sushir
	Ms. Ridhima Chandan		
	Mr. Nyuraj Ramteke		
	Mr. Shantanu Taywade		
	Mr. Mrunmay Panchal		
8	Mr. Adarsh Dashrath Kurwane	<b>Arduino based smart Dust-bin</b>	Prof. A. P. Dhande
	Mr. Ashutosh Mulonkar		
	Mr. Dhanwant Kanoji		
	Mr. Pretesh Kale		
9	Ms. Richee Khaparde	<b>Smart Blind Stick</b>	Prof. B. R. Mankar
	Mr. Rutik Dakre		
	Mr. Pratik Aswar		
	Mr. Yash Tayde		
	Ms. Vaibhavi Deshmukh		
10	Ms. Sejal Sanjay Bijwe	<b>Real Time Clock</b>	Prof. S. P. Bhonge
	Mr. Shubham Parise		
	Mr. Sharvan Thakre		
	Mr. Shreyas Thelkar		
	Mr. Rutik Kurhade		
11	Ms. Gayatri R. Watane	<b>Rotating Solar Panel Using Arduino</b>	Prof. A. R. Pawade
	Ms. Pranali Rameshrao Thakre		
	Ms. Vaidehi Rajesh Mahalle		
	Mr. Suyog Arunrao Chandurkar		
	Mr. Mohammad Atif Umair		

  
 H.O.D. (EXTC Dept.)  
 P.R.Pote (Patil) College of Engg. & Management  
 Amravati.

**Head of Department**



# **“Fake Currency Detection and Billing system Using Python”**

## **Project Report**

**Submitted to**

**Sant Gadge Baba Amravati University**

**In partial fulfillment of the Requirement for the award of**

**Degree of**

**Bachelor of Engineering**

**By**

Abhijit Shrikrushnarao Katore	Roll No. 425
Prajwal Sanjayrao Bharsakale	Roll No. 432
Rudresh Ravindra Pasarkar	Roll No. 435
Shreyash Ashokrao Nagpure	Roll No. 438
Ajay vilasrao Uike	Roll No. 457

**Under the guidance of**

**Dr. R. D. Ghongade**



**Department of Electronics and Telecommunication Engineering**

**P. R. Pote Patil Education & Welfare Trust's Group of Institutions,**

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**Amravati – 444605 (M. S.)**

**2021-2022.**



Department of Electronics and Telecommunication Engineering  
P. R. Pote Patil Education & Welfare Trust's Group of Institutions,  
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Amravati – 444605 (M. S.)

2021 – 2022.



**CERTIFICATE**

This is to certify that the project report entitled


**“Fake Currency Detection and Billing System Using Python”**


Submitted by

Abhijit Shrikrushnarao Katore	Roll No. 425
Prajwal Sanjayrao Bharsakale	Roll No. 432
Rudresh Ravindra Pasarkar	Roll No. 435
Shreyash Ashokrao Nagpure	Roll No. 438
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In partial fulfillment of the requirements for the award of Degree of Bachelor of Engineering in Electronics and Telecommunication Engineering by Sant Gadge Baba Amravati University & is a bonafied work carried out during the session 2021-2022.



  
Principal  
P. R. Pote (Patil)  
College of Engineering & Management  
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12/05/2022  
Dr. R. D. Ghongade  
Head of the Department & Guide

H.O.D. (EXTC Dept.)  
P.R.Pote (Patil) College of Engg. & Management  
Amravati.

  
Examiner

# **“SMART QUIZ FOR BLIND PEOPLE”**

**Seminar Report**

**Submitted to**

**Sant Gadge Baba Amravati University**

**In partial fulfillment of the Requirement for the award of**

**Degree of**

**Bachelor of Engineering**

**By**

Ms. Vaishnavi S. Jadhav

Ms. Aishwarya S. Kale

Mr. Shubham K. Javeri

Ms. Vaishnavi J. Pawar

Mr. Pawan G. Kakad

**Under the guidance of**

**Prof. Dr. G. D. Dalvi**



**Department of Electronics and Telecommunication Engineering**  
**P. R. Pote Patil Education & Welfare Trust's Group of Institutions,**  
**College of Engineering & Management.**

**Amravati – 444605 (M. S.)**

**2021-2022.**



Department of Electronics and Telecommunication Engineering  
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College of Engineering & Management.

Amravati – 444605 (M. S.)

2021 – 2022.



**CERTIFICATE**

This is to certify that the Seminar report entitled

**“Smart Quiz for Blind People”**

Submitted by

**Ms. Vaishnavi S. Jadhav**

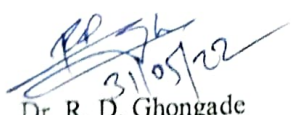
**Ms. Aishwarya S. Kale**

**Mr. Shubham K. Javeri**


**Ms. Vaishnavi J. Pawar**

**Mr. Pawan G. Kakad**


In partial fulfillment of the requirements for the award of Degree of Bachelor of Engineering in Electronics and Telecommunication Engineering by Sant Gadge Baba Amravati University & is a bonafied work carried out during the session 2021-2022.

  
Dr. R. D. Ghongade  
Head of the Department  
H.O.D. (EXTC Dept.)  
P.R.Pote (Patil) College of Engg. & Management  
Amravati.

Examiner:

  
Prof. Dr. G. D. Dalvi  
Guide



  
P. R. Pote (Patil)  
College of Engineering & Management  
Amravati.

# **“IOT Based Smart Plant Monitoring System and Energy Meter”**

## **Seminar Report**

**Submitted to**

**Sant Gadge Baba Amravati University**

**In partial fulfillment of the Requirement for the award of Degree of**

**Bachelor of  
Engineering By**

**Ms. Monali V. Bhutada**

**Ms. Ankita U. Wankhede**

**Ms. Aachal V. Wankhade**

**Ms. Vaishnavi C. Bondre**

**Ms. Rucha S. Akarte**

**Ms. Priyanka G. Risodkar**

**Under the guidance of**

**Prof. U. W. Hore**



**Department of Electronics and Telecommunication Engineering  
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College of Engineering & Management.**

**Amravati – 444605 (M. S.)**

**2021 – 2022**



  
**Principal  
P. R. Pote (Patil)  
College of Engineering & Management  
Amravati**

Department of Electronics and Telecommunication Engineering  
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2021 – 2022.



## **CERTIFICATE**

This Is to certify that the seminar report entitled

**“IOT Based Smart Plant Monitoring System and Energy Meter”**

Submitted by

**Ms. Monali V. Bhutada.**

**Ms. Ankita U. Wankhede**

**Ms. Aachal V. Wankhade**

**Ms. Vaishnavi C. Bondre**

**Ms. Rucha S. Akarte**

**Ms. Priyanka G. Risodkar**

In partial fulfillment of the requirements for the award of Degree of Bachelor of Engineering in Electronics and Telecommunication Engineering by Sant Gadge Baba Amravati University & is a benefited work carried out during the session 2021-2022.

**Dr. R. D. Ghongade.**

**Head of the Department**

**H.O.D. (EATC Dept.)**

**P.R.Pote (Patil) College of Engg. & Management  
Amravati.**

**Examiner**

**Prof. U.W. Hore.**

**Name of Guide**

# **“LAND USE CLASSIFICATION OF AMRAVATI DISTRICT USING SATELLITE IMAGES”**

**Project Report**

**Submitted to**

**Sant Gadge Baba Amravati University**

**In partial fulfillment of the Requirement for the award of**

**Degree of**

**Bachelor of Engineering**

**By**

**Ms. Komal Bansod**

**Ms. Yogita Dhokane**

**Ms. Shweta Gaikwad**

**Ms. Shreya Mohod**

**Mr. Shreyash Pethe**

**Under the guidance of**

**Prof. P. N. Pusdekar**



**Department of Electronics and Telecommunication Engineering**

**P. R. Pote Patil Education & Welfare Trust's Group of Institutions,**

**College of Engineering & Management.**

**Amravati – 444605 (M. S.)**

**2021-2022.**

Amravati – 444605 (M. S.)

2021 – 2022.



## CERTIFICATE

This is to certify that the project report entitled

### **“LAND USE CLASSIFICATION OF AMRAVATI DISTRICT USING SATELLITE IMAGES”**

Submitted by

**Miss. Komal Bansod**

**Miss. Yogita Dhokane**

**Miss. Shweta Gaikwad**

**Miss. Shreya Mohod**

**Mr. Shreyash Pethe**

In partial fulfillment of the requirements for the award of Degree of Bachelor of Engineering in Electronics and Telecommunication Engineering by Sant Gadge Baba Amravati University & is a bonafied work carried out during the session 2021-2022.

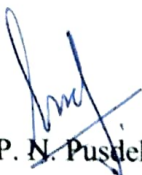
  
31/05/22

**Dr. R. D. Ghongade**

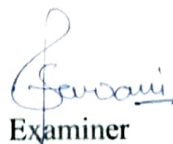
**Head of the Department**

**H.O.D. (EXTC Dept.)**


**P.R.Pote (Patil) College of Engg. & Management  
Amravati.**

  
Prof. P. N. Pusdekar

**Guide**

  
**Examiner**



  
**P. R. Pote (Patil)**  
**College of Engineering & Management**  
**Amravati.**



# **“IOT BASED FIRE CONTROL SYSTEM FOR FOUR WHEELER”**

**Project Report**

**Submitted to**

**Sant Gadge Baba Amravati University**

**In partial fulfillment of the Requirement for the award of**

**Degree of**

**Bachelor of Engineering**

**By**

**Ms. Chetna Liladhar Maske**

**Ms. Sakshi Sanjay Bhonde**

**Ms. Vaishnavi Vinod Bawner**

**Mr. Ashwik Rajendra Bire**

**Mr. Shantanu Anilrao Shirbhate**

**Under the guidance of**

**Prof. G. D. Nagoshe**



**Department of Electronics and Telecommunication Engineering**  
**P. R. Pote Patil Education & Welfare Trust's Group of Institutions,**

**College of Engineering & Management.**

**Amravati – 444605 (M. S.)**

**2021-2022**



Department of Electronics and Telecommunication Engineering  
P. R. Pote Patil Education & Welfare Trust's Group of Institutions,  
College of Engineering & Management.

Amravati – 444605 (M. S.)

2021 – 2022.



## CERTIFICATE

This is to certify that the project report entitled  
**“IOT Based Fire Control System For Four-wheeler”**

Submitted by

Ms. Chetna Liladhar Maske

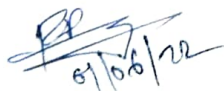
Ms. Sakshi Sanjay Bhonde

Ms. Vaishnavi Vinod Bawner

Mr. Ashwik Rajendra Bire

Mr. Shantanu Anilrao Shirbhate

In partial fulfillment of the requirements for the award of Degree of Bachelor of Engineering  
in Electronics and Telecommunication Engineering by Sant Gadge Baba Amravati University & is a  
benefited work carried out during the session 2021-2022.

  
6/10/22

Dr. R. D. Ghongade  
Head of the Department



Prof G. D. Nagoshe  
Guide

H.O.D. (EXTC Dept.)  
P.R.Pote (Patil) College of Engg. & Management  
Amravati.

  
Examiner



  
Principal  
P. R. Pote (Patil)  
College of Engineering & Management  
Amravati.

# **MEDICAL SUPPLIES DELIVERY DRONE**

**Project Report**

**Submitted to**

**Sant Gadge Baba Amravati University**

**In partial fulfillment of the Requirement for the award of**

**Degree of**

**Bachelor of Engineering**

**By**

**Mr. Virendra Narendra Kande**

**Ms. Roshani Ganeshrao Ande**

**Mr. Shubham Narendra Maske**

**Ms. Sayyada Adeeba Firdous**

**Ms. Rutuja Sunilrao Thakare**

**Under the guidance of**

**Dr. V. B. Padole**



**Department of Electronics and Telecommunication Engineering**

**P. R. Pote Patil Education & Welfare Trust's Group of Institutions,**

**College of Engineering & Management.**

**Amravati – 444605 (M. S.)**

**2021-2022.**

Department of Electronics and Telecommunication Engineering  
P. R. Pote Patil Education & Welfare Trust's Group of Institutions,  
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Amravati - 444605 (M. S.)

2021 - 2022.



## CERTIFICATE

This is to certify that the Project report entitled  
**MEDICAL SUPPLIES DELIVERY DRONE**

Submitted by

**Mr. Virendra Narendra Kande**

**Ms. Roshani Ganeshrao Ande**

**Mr. Shubham Narendra Maske**

**Ms. Sayyada Adeeba Firdous**

**Ms. Rutuja Sunilrao Thakare**

In partial fulfillment of the requirements for the award of Degree of Bachelor of Engineering in Electronics and Telecommunication Engineering by Sant Gadge Baba Amravati University & is a bonafied work carried out during the session 2021-2022.

*Dr. R. D. Ghongade*  
30/04/22

**Dr. R. D. Ghongade**  
Head of the Department

H.O.D. (EXTC Dept.)

P.R. Pote (Patil) College of Engg. & Management  
Amravati

*Dr. V. B. Padole*

**Dr. V. B. Padole**  
Guide



*Principal*  
P. R. Pote (Patil)  
College of Engineering & Management  
Amravati

# **“Smart Baby Cradle”**

## **Project Report**

**Submitted to**

**Sant Gadge Baba Amravati University**

**In partial fulfillment of the Requirement for the award of**

**Degree of**

**Bachelor of Engineering**

**By**

**Ms. Samiksha S. Thakur**

**Ms. Aarti O. Gade**

**Ms. Dharti D. Khadse**

**Mr. Dinesh V. Wankhade**

**Mr. Pranay V. Jawanjal**

**Mr. Shardul P. Bhogaonkar**

**Under The Guidance of**

**Mr. R. D. Sushir**



**Department of Electronics and Telecommunication Engineering**

**P. R. Pote Patil Education & Welfare Trust's Group of Institutions,**

**College of Engineering & Management.**

**Amravati – 444605 (M. S.)**

**2021 – 2022.**



Department of Electronics and Telecommunication Engineering  
P. R. Pote Patil Education & Welfare Trust's Group of Institutions,  
College of Engineering & Management.

Amravati – 444605 (M. S.)

2021-2022.



**CERTIFICATE**

This is to certify that the Project report entitled

**“Smart Baby Cradle”**

Submitted by

Ms. Samiksha S. Thakur  
Ms. Aarti O. Gade  
Ms. Dharti D. Khadse  
Mr. Dinesh V. Wankhade  
Mr. Pranay V. Jawanjal  
Mr. Shardul P. Bhogaonkar

In partial fulfillment of the requirements for the award of Degree of Bachelor of Engineering in Electronics and Telecommunication Engineering by Sant Gadge Baba Amravati University & is a benefited work carried out during the session 2021-2022.

Dr. R. D. Ghongade  
**Head of the Department**  
H.O.D. (EXTC Dept.)

P. R. Pote (Patil) College of Engg. & Management

Amravati.  
Dr. D. T. Ingole  
**Principal**

  
Mr. R. D. Sushir  
**Guide**  
Principal  
P. R. Pote (Patil)  
College of Engineering & Management  
Amravati

# **“Weather Monitoring System Using IOT”**

**Project Report**

**Submitted to**

**Sant Gadge Baba Amravati University**

**In partial fulfillment of the Requirement for the award of**

**Degree of**

**Bachelor of Engineering**

**By**

**Mr. Hrutwik Dalvi**

**Mr. Akshay Thakare**

**Mr. Rushikesh Kale**

**Mr. Nikhil Deshmukh**

**Mr. Suraj Mahalle**

**Under the guidance of**

**Prof. A. R. Pawade**



**Department of Electronics and Telecommunication Engineering**

**P. R. Pote Patil Education & Welfare Trust's Group of Institutions,**

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**Amravati – 444605 (M. S.)**

**2021-2022**



Department of Electronics and Telecommunication Engineering  
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Amravati - 444605 (M. S.)

2021-2022.



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This is to certify that the Project report entitled

“Weather Monitoring System Using IOT”

Submitted by

**Mr. Hrutwik Dalvi**

**Mr. Akshay Thakare**

**Mr. Rushikesh Kale**

**Mr. Nikhil Deshmukh**

**Mr. Suraj Mahalle**

In partial fulfillment of the requirements for the award of Degree of Bachelor of Engineering in Electronics and Telecommunication Engineering by Sant Gadge Baba Amravati University & is a bonafied work carried out during the session 2021-2022.

Dr. R. D. Ghongade.  
Head of the Department.

H.O.D. (EXTC Dept.)

P.R.Pote (Patil) College of Engg. & Management  
Amravati.

Prof. A. R. Pawade  
Name of Guide

Examiner



Principal  
P. R. Pote (Patil)  
College of Engineering & Management  
Amravati.

# **“SMART WASTE MANAGEMENT SYSTEM IN RAILWAY COACHES”**

## **Project Report**

**Submitted to**

**Sant Gadge Baba Amravati University**

**In partial fulfillment of the Requirement for the award of**

**Degree of**

**Bachelor of Engineering**

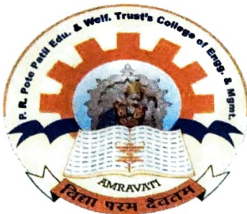
**By**

**Ms. Rutuja Kolhe  
Ms. Divya Bhoyar**

**Ms. Nainika Gangane  
Ms. Vedika Punse**

**Under the guidance of**

**Prof. S. P. Bhonge**



**Department of Electronics and Telecommunication Engineering**

**P. R. Pote Patil Education & Welfare Trust's Group of Institutions,**

**College of Engineering & Management.**

**Amravati – 444605 (M. S.)**

**2021-2022.**

Department of Electronics and Telecommunication Engineering  
P. R. Pote Patil Education & Welfare Trust's Group of Institutions,  
College of Engineering & Management.  
Amravati – 444605 (M. S.)  
2021 – 2022.



**CERTIFICATE**

This is to certify that the Project report entitled

**“Smart Waste Management System in Railway Coaches”**

Submitted by

**Ms. Rutuja Kolhe**

**Ms. Nainika Gangane**

**Ms. Divya Bhoyar**

**Ms. Vedika Punse**

In partial fulfillment of the requirements for the Team Work (Final Year) of Degree of Bachelor of Engineering in Electronics and Telecommunication Engineering by Sant Gadge Baba Amravati University & is a bonafied work carried out during the session 2021-2022.

Dr. R. D. Ghongade  
Head of the Department

H.O.D. (EXTC Dept.)

P.R.Pote (Patil) College of Engg. & Management  
Amravati.

Examiner

Prof. S. P. Bhongde  
Guide



P. R. Pote (Patil)  
College of Engineering & Management  
Amravati.

# **“COTTON PLANT LEAVES DISEASE DETECTION USING IMAGE BASED TECHNOLOGY”**

**Project Report**

**Submitted to**

**Sant Gadge Baba Amravati University**

**In partial fulfillment of the Requirement for the award of**

**Degree of**

**Bachelor of Engineering**

**By**

**Ms. Lavina Thakur**

**Ms. Aboli Pahurkar**

**Ms. Amruta Khalokar**

**Mr. Pratik Sonone**

**Mr. Prasad Bunde**

**Under the guidance of**

**Prof. A.R. Pawade**



**Department of Electronics and Telecommunication Engineering**

**P. R. Pote Patil Education & Welfare Trust's Group of Institutions,**

**College of Engineering & Management.**

**Amravati – 444605 (M. S.)**

**2021-2022.**

P. R. Pote Patil Education & Welfare Trust's Group of Institutions,

College of Engineering & Management,

Amravati - 444605 (M. S.)

2021 - 2022.



## CERTIFICATE

This is to certify that the Project report entitled

### **"COTTON PLANT LEAVES DISEASE DETECTION USING IMAGE BASED TECHNOLOGY"**

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In partial fulfillment of the requirements for the award of Degree of Bachelor of Engineering  
in Electronics and Telecommunication Engineering by Sant Gadge Baba Amravati University  
& is a bonafied work carried out during the session 2021-2022.


  
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Principal  
P. R. Pote (Patil)  
College of Engineering & Management  
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# **“IR RADAR FOR UNAUTHORIZED OBJECT DETECTION”**

**Project Report**

**Submitted to**

**Sant Gadge Baba Amravati University**

**In partial fulfillment of the Requirement for the award of**

**Degree of**

**Bachelor of Engineering**

**By**

**Mr. Umesh Pardeshi**

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**Mr. Avinash Tekwani**

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## CERTIFICATE

This is to certify that the Seminar report entitled

**"IR Radar for Unauthorized Object Detection"**

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