

**Prof. Ram Meghe Institute of Technology & Research , Badnera- Amravati**  
**Department of Electronics & Telecommunication Engineering**  
**Project Group Final Year Section A Session (2021-2022)**

Batch No.	Name of Student	Class Roll No	Project Guide	Project Topic
A1	Ram Sanjay Pachkawade	48	Prof.S.A.Nirmal	FACE MASK AND BODY TEMPERATURE DETECTION SYSTEM TO PREVENT COVID FOR WORK ENVIORNMENT
	Gaurav Jagdeo Shinde	61		
	Rutvik Rajendra Wagh	69		
A2	Indrayani Jolhe	27	Prof. Ms. N.C.Band	Image Processing Based Salesman Detection
	Yuganti taywade	65		
	Aachal kale	29		
A3	Renuka Sunil Agarkar	02	Prof.Ms.S.S.Tantarpale	Google Assistant Controlled Home Automation
	Neha Chandrashekhar Gudadhe	22		
	Anushri Anant Raut	53		
A4	Ritik Rajesh Mulchandani	45	Prof. V. R. Raut	Smart Phone based ECG Acquisition Analysis
	Rashmita R. Nirmal	47		
	Surashree Dhirendra Gawande	19		
A5	Saloni Purushottam Tambakhe	64	Prof. K S Belsare	Automated Paralysis Patient Healthcare System
	Gauri Sanjay Khadatkhar	33		
	Vaishnavi Suryavanshi	63		
A6	Rutik Prakashrao Warhade	72	Dr.C.N.Deshmukh	Biometric based Door lock Security System
	Minank Navalkishor Zanwar	73		
	Harshal Manoj Heda	24		
A7	SIDDHESH NANDURKAR	46	Prof.A.I.Rokade	Automatic Waste Segregation & Monitoring System
	SAKSHI MANWAR	42		
	ROHINI SAKHARKAR	55		
A8	Manojkumar kude	37	Prof. V. U. Kale	Vehicle Data acquisition system
	Shraddha Gadhikar	17		
	Ishwari Pandav	49		
A9	Pranjal K. Wankhade	70	Prof.Mrs.J.N.Ingole	Smart Shopping Trolley with Automated Billing using Arduino
	Aditi Chandure	6		
	Sharada G. Kulkarni	38		



  
Head  
Dept. of Elect. & Telecom. Engg.  
P. M. I. T. & R. Badnera Amravati

Batch No.	Name of Student	Class Roll No	Project Guide	Project Topic
A10	Abhishek Gopal Kadu	28	Prof. A. S. Utane	Camera Vision & IOT based Person Identification using Surveillance Spybot
	Dhanashree Rajesh Dhole	14		
	Poonam Diliprao Bramhanwade	4		
A11	Hrutwik Dabhade	07	Prof.G.D.Patil	Picking Object Using Robotic Arm
	Rushant Thakre	66		
	Jayesh Kolhe	36		
A12	Snehal Karade	31	Prof.Mrs.A.P.Deshmukh	Smart Voting System using Finger Print & Face Detection
	Pavan Rathod	52		
	Kshitij Raut	54		
A13	Shubhada Pravin Malpe	41	Prof. A. R. Pathare	IOT based Sewers/wells safety Monitoring & Alert System
	Pranjali kishorrao Gurad	23		
	Ankita sunilrao Jambhorkar	25		
A14	Sambhav Deshmukh	11	Prof.N.S.Thakare	Smart water Quality monitoring system with cost – effective using IoT
	Shubham Gilorkar	21		
	Ajay devikar	13		
A15	Rasika Deepak Shelke	59	Prof.Mrs.M.S.Joshi	IOT Enabled Underground Drainage Monitoring System using water flow sensors & Gas Sensors
	Apeksha Suresh Burande	5		
	Kajal Vilasrao Khadse	35		
A16	Disha Rajesh Deshmukh	10	Dr.N.N.Khalsa	Campus Recruitment Automation System
	Shreya Uddhaora Sherje	60		
	Akanksha Kishor Fuse	16		
A17	Mohit Rajendrarao Therey	67	K S Belsare	IOT Garbage Monitoring with Weight Sensing
	Yash sunil shrungare	62		
	Prachi Sharad Adhau	01		
A18	Shreyas Morey	44	Prof. P. R. Lawhale	Stock Market Prediction
	Vivek Tidke	68		
	Kunal Patil	50		
A19	Kuwar Bandubhau Sawai	58	Dr.S.V.Pattalwar	Wireless Notice Board using Arduino UNO
	Sumit Sanjay Kamble	30		
	Sangam Gangadharrao Wankhade	71		
A20	Abhishek Sureshrao Kaware	32	Prof.V. J. Babrekar	IOT based Bus Seats Vacancy Unit for Roadways
	Harshal vijayanand jambhulkar	26		

*Signature*

*Signature*  
Head  
Dept. of Elect. & Telecom. Engg.  
P.R.M.I.T&R Badnera Amravati

Batch No.	Name of Student	Class Roll No	Project Guide	Project Topic
	Bhuvan Ravi Ganeshkar	18		
A21	Roshani khade	34	Prof.Mrs.M.D.Ingole	Improving Quality of Older Painting using Digital Image Processing
	Shantanu Deshmukh	12		
	Prajwal deore	9		
A22	Madhav Harish Sangani	56	Dr. S. M. Deshmukh	Visualizing the action and converting it to the Text
	Prathmesh Sunil Dodake	15		
	Manojit Arabind Malik	40		
A23	Maithili mahalle	39	Prof.A.D.Kadu	Biometric Finger print Attendance System using Node MCU
	Gayatri dahake	8		
	Ruchita pokale	51		
	Priyanka Bhagyawant	03		
A24	Nitesh B. Meshram	43	Prof. A. B. Pardikar	Smart Health Monitoring System using IOT
	Ajay G. Sangole	57		
	Dhanashri Ghaghare	20		

  
Project Coordinator



  
HOED

**Prof. Ram Meghe Institute of Technology & Research , Badnera- Amravati**  
**Department of Electronics & Telecommunication Engineering**  
**Project Group Final Year Section B Session (2021-2022)**

Batch No.	Name of Student	Class Roll No	Project Guide	Project Title
B1	Pushpak P. Hirode	20	Prof. N. S. Wadhe	<i>" Digital Watermaking "</i>
	Sharavu S. Dange	10		
	Gavatri R. Kaje	24		
B2	Kartikesh.V.Sarad	42	Dr. S. M Deshmukh	<i>" Soil Analyzer "</i>
	Mayank.M.Chepe	09		
	Tejas.R.Bhoyar	06		
B3	Chaitanya Prakash Deole	53	Prof. P. R. Lawhale	<i>" Heart Attack Detection System "</i>
	Ashwini Rajendra Dabhade	52		
	Anand Sanjay Fulkari	56		
B4	Shon Milind Thakare	49	Prof.A.D.Kadu	<i>" An Integrated Cloud-Based Smart Home Management System with Community Hierarchy "</i>
	Vaishnavi Shriram Deshmukh	13		
	Yash Santosh Jaiswal	21		
B5	SAMRUDDHI GAJANAN THAKARE	48	Prof. N. S. Wadhe	<i>" Morphological Background Detection and Enhancement of Image With Poor Lighting "</i>
	RUTUJA SUDHIR DESHMUKH	12		
	ANAND MADHUKAR BHAKARE	3		
B6	Kshitij Vinodrao Bokey	07	Prof. M.V. Tiwari	<i>" IOT Based Smart Solar Flower "</i>
	Prashik Ranjit Bhalerao	05		
	Rushikesh Devidas kawal	27		
B7	Nidhi vimlesh Thaker	68	Prof.Mrs.M.S.Joshi	<i>" Smart Water Meter "</i>
	Divya Dnyaneshwar Kaware	28		
	Dharti Hemant Datir	11		
B8	Siddhant A Uke	70	Prof.M.K.Shriwas	<i>" Women Safety Using IOT "</i>
	Sarang R. Lakadkar	73		
	Piyush .K. Ghatol	57		
B9	VISHAKHA KISHOR BORKAR	08	Prof.Mrs.A.P.Deshmukh	<i>" Automatic Billing System Using Ultrasonic Sensor "</i>
	AKANKSHA BABARAO PATIL	35		
	PORNIMA NAGSEN BHAGAT	01		

*ASU*

  
 Head  
 Dept. of Elect. & Telecom. Engg.  
 P.R.M.I.T&R Badnera Amravati



Batch No.	Name of Student	Class Roll No	Project Guide	Project Title
B10	Maitrey Prabhudas Sabale	41	Prof.Mrs.M.D.Ingole	<i>" Smart Dustbin for Smart City with SMS Alerts "</i>
	Mrudang Sanjay Ghadekar	17		
	Shritej Vijay Ronghe	39		
B11	Pranav Subhash Lonare	62	Prof. C.W.Rawarkar	<i>" Faulty Cloth Detection Through Image Processing "</i>
	Ankush Anil Masne	63		
	Shubham Gajanan Ingle	60		
B12	Minal Manoj Janai	61	Prof. A. B. Pardikar	<i>" Transformer Health Monitoring And Control Through Arduino And GSM "</i>
	Richa Deepakrao Bhagat	02		
	Vaishnavi panjab ghode	58		
B13	Hrushikesh Rajesh Dharamthok	54	Prof.G.D.Patil	<i>" DESIGN OF HUMAN ACTIVITY RECOGNITION SYSTEM USING BODY SENSOR NETWORKS "</i>
	Pratiksha Devrao Bahadure	79		
	Nandini Sunil Munot	33		
B14	Sakshi Vijayrao Gadge	16	Dr.N.N.Khalsa	<i>" Mitra-The Placement Portal "</i>
	Shraddha Vyas	51		
	Shrushti Dumre	15		
B15	Pooja S.Nitnaware	34	Prof.V. J. Babrekar	<i>"Cotton Quality Detection Technique Using Image Processing"</i>
	Kalyani pavitrakar	36		
	Mohammad Sufiyan	31		
B16	VISHAL DILIP DONGARE	55	Prof. V. U. Kale	<i>" SMART COVID PREVENTION DOOR USING IOT "</i>
	ANKIT ANIL RAJGURE	66		
	SAURABH ANILRAO KHODASKAR	80		
B17	TARAK HEMANT KALORE	25	Prof. V. R. Raut	<i>" Smart Shopping Trolley with Automated Billing Using Arduino "</i>
	ABHISHEK JAIWANT KANDALKAR	26		
	HARSHAD SUBHASH MUNDE	32		
B18	Tanay diwakar bobade	78	Prof.S.P.Zade	<i>" Under ground cable fault detection using IOT "</i>
	Resha kishor Suryawanshi	67		
	Prasannakumar rajendra umap	71		
B19	Adarsh Sunil Kawade	75	Prof. A.S.Mahore	<i>"Retina Scanner (Smart Glass Type Image System Using MEMS Scanner)"</i>
	Makrand Maroti Raipure	38		
	HIMANSHU ARUNRAO HANDE	59		
	Twinkle Anil Gophane	18		<i>" Road Sign Recognition System for Autonomous Vehicle "</i>

*Signature*

*Signature*  
Head  
Dept. of Elect. & Telecom. Engg.  
P.R.M.I.T&R Badnera Amravati

Batch No.	Name of Student	Class Roll No	Project Guide	Project Title
B20	Vishakha M. Deshmukh	14	Prof. A. S. Utane	<i>Road Sign Recognition System for Autonomous Vehicle using Raspberry Pi "</i>
	Ruchita S. Jawanjal	22		
B21	Rahul Gajananrao Masram	64	Prof. Ms. N.C.Band	<i>"IOT Covid Patient Health Monitor In Quarantine System"</i>
	Harshal Kadam	23		
	Satpute Sanjog Kamlakar	43		
B22	Rajat Ujwala Raikwar	37	Dr.C.N.Deshmukh	<i>" Automatic Traffic And Street Light Controller Based on Traffic Intensity for Optimized Power Consumption "</i>
	Mukul Shrikant Bhakare	04		
	Kartik Narendra Sawarkar	44		
B23	Saksham D. Punase	76	Dr.S.V.Pattalwar	<i>"Android Based Alcohol Sense Engine Lock Using GSM and GPS"</i>
	Sahil J. Rupnarayan	74		
	Rohit N. Kalpande	77		
	PANDITKAR SHIVAM H	65		
B24	KEDAR KULKARNI	29	Prof.Mrs.J.N.Ingole	<i>" Face Mask Detector "</i>
	UJJWAL ROTELE	40		
	CHINMAY TAWRI	47		
B25	Hande Aditya Suhas	19	Prof.B.P.Fuladi	<i>"Flood Monitoring &amp; Alerting System "</i>
	Meshram Manish Manoharrao	30		
	Saygan Gopal Diliprao	45		
	Velukar Saurav Santoshrao	50		
B23	Sirsat Arpita Rajesh	46	Prof.Ms.S.S.Tantarpale	<i>"Wireless Water Level Indicator With Munciple Water Supply Indication"</i>
	UKE PRANALEE DIPAK	69		
	POHEKAR ACHAL SANJAY	72		

  
Project Coordinator



  
HOED

**Prof. Ram Meghe Institute of Technology & Research , Badnera- Amravati**  
**Department of Electronics & Telecommunication Engineering**  
**Project Group Final Year Section C Session (2021-2022)**

Batch No.	Name of Student	Class Roll No	Project Guide	Project Title
C1	Ritul Bhople	14	Dr.S.W.Mohod	Multi directional surveillance system
	Shravani Chavan	01		
	Abhijeet Dhore	23		
C2	Priyank Gajanan Gulhane	28	Dr.N.P.Dhole	House price prediction using machine learning
	Purva Gopal Tiwari	11		
	Raunak Parmanand Malpani	36		
C3	Sahil Kishorrao Hiwase	29	Prof.S.A.Nirmal	IoT based Smart Mirror Using Rasberry pi
	Altamash Ayyub Malnas	35		
	Adarsh Shrikrushna Bhagat	15		
C4	Yashwant Chukka	20	Prof.S.P.Zade	Intelligent Traffic Signalling Priority System For Ambulance
	Ashish Lasurkar	33		
	Tushar Patil	39		
C5	Nachiket S. Deshmukh	22	Prof. A.S.Mahore	Smart Healthcare Device
	Sagar C. Dhote	24		
	Abhijeet M. Galat	25		
C6	Yash Mahalle	34	Dr.N.P.Dhole	ANDROID BASED ALCOHOL DETECTION SYSTEM USING AN IOT
	Yash Nistane	37		
	Himanshu Khode	32		
C7	Mandar Nitin Goley	27	Prof.N.S.Thakare	Automatic Medical Waste Segregation and Management System
	Abhijeet Suresh Sarap	42		
	Vedant Sureshrao Kadu	31		
C8	Ashutosh Jatale	30	Prof.Ms.R. A. Wakode	Human Body Action Tracking And Recognition Using Elm Algorithm
	Lokesh Baraskar	13		
	Abhishek Deshmukh	21		
C9	Akshay Gangadhar Raut	41	Prof.M.K.Shriwas	Automatic Hand sanitizer with temperature sensing and people counting
	Amansing Sanjaysing Baghele	12		
	Shritej Bhokare	17		

*(Signature)*

*(Signature)*  
 Head  
 Dept. of Elect. & Telecom. Engg.  
 P. R. M. I. T. & R. Badnera Amravati

Batch No.	Name of Student	Class Roll No	Project Guide	Project Title
C10	Bhagyashree tejrao patil	8	Dr.S.W.Mohod	GPS tracking and engine locking system of vehicle
	Sharaddha koche	5		
	Shwata pathak	7		
C11	NILAY GAWATRE	26	Prof.A.I.Rokade	An IOT based school bus system
	SHREYASH BHENDE	16		
	SAURABH SONKUSARE	45		
C12	Abhishek S. Sharma	43	Prof. M.V. Tiwari	Night vision/ir camera using esp32 cam arduino module
	Ruchika Vijay Patil	09		
	Samruddhi Chhatrapati Padole	06		
C13	Pooja Purushottam Ingle	3	Prof.Ms.R. A. Wakode	Health care Smart bottle system using IOT
	Rashmi Aatmaram Jadhav	4		
	Sanket Madhukarrao Pakade	38		
C14	Atul Rahane	40	Prof.B.P.Fuladi	Solid Wastage Management For Smart Cities
	Chetan Shevatkar	44		
	Rushikesh Bodade	19		
C15	Payal Tarekar	10	Prof. C.W.Rawarkar	Black box
	Krutika Dandge	2		
	Sarthak Bhutad	18		

  
Project Coordinator



  
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VIDARBHA YOUTH WELFARE SOCIETY'S

# PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY & RESEARCH

- 'A' Grade Institute by DTE, Government of Maharashtra
- Recognized by: All India Council for Technical Education, New Delhi
- Affiliated to Sant Gadge Baba Amravati University, Amravati

Date: 21/10/2021

To,  
The Asst. Registrar,  
Sant Gadge Baba Amravati University, Amravati

Subject: Titles of dissertation of M.E. (Digital Electronics) / AY 2021-22

R/Sir,  
Please find submitted herewith topic of dissertation of ME students in prescribed format in seven copies. Please acknowledge the receipt of the same.

### Three Year Part time course

Sr. No.	NAME OF STUDENT	TITLE	SPECIALIZATIN	GUIDE
1	Ms. Namrata Daga	Performance Analysis and energy optimization in Wireless Sensor Network using AOMDV Protocol	ME (Digital Electronics)	Dr. S. M. Deshmukh
2	Mr. Rohit Ingale	Simulation of Battery Operated Electric Vehicle using MATLAB	ME (Digital Electronics)	Dr. S. M. Deshmukh
3	Ms. Ashwini Gayakwad	Diagnosis Of COVID-19 From Chest X-Ray Images Using Deep Learning Approach	ME (Digital Electronics)	Dr. S. W. Mohod
4	Mr. Yogesh Futane	Machine Learning Based Pneumonia Diagnosis From XRay Images	ME (Digital Electronics)	Dr. C. N. Deshmukh
5	Mr. Prasad Bhombe	Recognition of Plant Diseases by Leaf Image Classification using Machine Learning	ME (Digital Electronics)	Dr. S. V. Pattalwar

Through: Head, Dept of EXTC,  
PRMITR, Badnera-Amravati



Principal,  
PRMITR, Badnera-Amravati

Encl: Seven copies in prescribed format

Anjangaon Bari Road, Badnera-Amravati. 444701 (M.S.) Ph. 0721-2681246 Fax: 0721-2681337

Web Site : [www.mitra.ac.in](http://www.mitra.ac.in) email [principal@mitra.ac.in](mailto:principal@mitra.ac.in)

(FORMERLY - COLLEGE OF ENGINEERING, BADNERA)

o/c <sup>19</sup> 21/10/21

Date: 29/10/2021

To,  
The Asst. Registrar,  
Sant Gadge Baba Amravati University, Amravati

Subject: Titles of dissertation of ME(Electronics & Telecommunication Engineering) / AY 2021-22

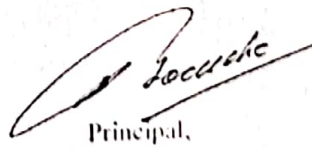
R/Sir,  
Please find submitted herewith topic of dissertation of ME students in prescribed format in seven copies. Please acknowledge the receipt of the same.

**Two Year Full Time Course**

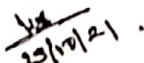
Sr. No.	NAME OF STUDENT	TITLE	SPECIALIZATIN	GUIDE
1	Ms. Dipali Niranjan Ingole	Artificial Intelligence based Human Threat Prediction from Video	ME (Electronics & Telecommunication Engineering)	Dr. C. N. Deshmukh
2	Ms. Mayuri Manoharrao Lande	AI based COVID-19 detection in CT SCAN images	ME (Electronics & Telecommunication Engineering)	Dr. C. N. Deshmukh
3	Mr. Shubham Ramsagar Dhembare	Deep Learning Based Feature Reduction For Intelligent Intrusion Detection System	ME (Electronics & Telecommunication Engineering)	Dr. S. W. Mohod
4	Ms. Sonali Ganesh Nehar	Detection of Malnutrition in Toddlers using Machine Learning	ME (Electronics & Telecommunication Engineering)	Dr. S. V. Patalwar
5	Ms. Supriya Suresh Pohekar	Anomaly Detection in Objects from Remotely Sensed Images using Computational Intelligence	ME (Electronics & Telecommunication Engineering)	Dr. S. M. Deshmukh
6	Ms. Vidyut Dilip Ingole	Solar power generation using tracker based system and analysis of agrophotovoltaics	ME (Electronics & Telecommunication Engineering)	Dr. S. W. Mohod

Through: Head, Dept of EXTC,  
PRMITR, Badnera-Amravati



  
Principal,  
PRMITR, Badnera-Amravati

Encl: Seven copies in prescribed format

  
29/10/21

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# CERTIFICATE

This is to certify that the project report entitled

## **"SEGREGATED WASTE AUTOMATIC COLLECTION"**

has been successfully completed by

**Rohini S. Sakharkar Sakshi D. Manwar**


**Siddhesh G. Nandurkar**

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



  
**Prof. Ashay I. Rokade**

Guide  
Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

  
03/06/2022  
**Dr. S. M. Deshmukh**  
Head,  
Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

  
**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled  
"Human body action tracking and recognition using  
ELM algorithm"  
has been successfully completed by


Hrushikesh Dharamthok  
Nandini Munot  
Pratiksha Bahadure

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022

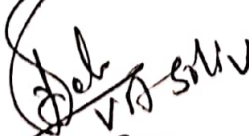


  
Prof. G. D. Patil

Guide  
Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

  
02/08/2022  
Dr. S. M. Deshmukhi

Head,  
Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

  
External Examiner



# CERTIFICATE

This is to certify that the project report entitled

**"An IOT Based School Bus System"**

has been successfully completed by

Mr. Nilay P. Gawatre

Mr. Shreyash R. Bhende

Mr. Saurabh Y. Sonkusare

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022





**Prof. A. I. Rokade**

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

  
30/05/2022

**Dr. S. M. Deshmukhi**

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

  
**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled

**“ Smart Glass Retina Imaging System  
Using Mems Scanner ”**

Has been successfully completed by


**Mr. Adarsh S. Kawade**

**Mr. Himanshu A. Hande**


**Mr. Makrand M. Raipure**

In Satisfactory manner as a partial fulfillment of  
Degree of Bachelor Of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022.



  
Prof. A. S. Mahore  
Guide

Department of ExTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

  
03/06/2022  
Dr. S. M. Deshmukhi  
Head,

Department of ExTC Engg.  
Prof. Ram Meghe Institute Of Technology &  
Research, Badnera

  
External Examiner



# CERTIFICATE

This is to certify that the project report entitled

**"AUTOMATIC BILLING SYSTEM"**

has been successfully completed by

*Ms. Vishakha K. Borkar*

*Ms. Akanksha B. Patil*

*Ms. Pornima N. Bhagat*

*in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022*

*A. P. Deshmukhi*  
02/06/2022

*Prof. Mrs. A. P. Deshmukhi*  
Guide

*S. M. Deshmukhi*  
03/06/2022

*Dr. S. M. Deshmukhi*  
Head,

Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

*S. P. Deshmukhi*  
V. A. Shiv  
External Examiner

# CERTIFICATE

This is to certify that the project report entitled  
"IOT Garbage Monitoring with Weight Sensing"  
has been successfully completed by


Mohit Therey  
Prachi Adhau  
Yash Shrungare

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022

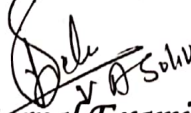


  
27/05/2022  
Prof. K. S. Belsare

Guide  
Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

  
27/05/2022  
Dr. S. M. Deshmukhi

Head,  
Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

  
External Examiner



# CERTIFICATE

*This is to certify that the project report entitled*

***“Smart Voting System using Fingerprint &  
Face Detection”***

*has been successfully completed by*

***Snehal Karade***

***Pavan Rathod***

***Kshitij Raut***

*in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022.*



*A. P. Deshmukh*  
18/05/2022

**Prof. Mrs. A. P. Deshmukh**

**Guide**

**Department of EXTC Engg.**

**PRM Institute Of Technology & Research, Badnera**

*S. M. Deshmukh*  
18/05/2022

**Dr. S. M. Deshmukh**

**Head,**

**Department of EXTC Engg.**

**PRM Institute Of Technology & Research, Badnera**

*V. S. Soliv*  
**External Examiner**

# CERTIFICATE

*This is to certify that the project report entitled*

***“DRIVING SAFETY DETECTION  
SYSTEM USING BLACK BOX”***

*has been successfully completed by*

***Mr. Sarthak N. Bhutad      Miss. Payal N. Tarekar***

*in satisfactory manner as a partial fulfillment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022*



*[Signature]*  
02/06/2022  
**Prof. C.W. Rawarkar**

Guide  
Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

*[Signature]*  
02/06/2022  
**Dr. S. M. Deshmukh**

Head,  
Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

*[Signature]*  
**External Examiner**



# CERTIFICATE

*This is to certify that the project report entitled*

## **"ANDROID BASED ALCOHOL DETECTION SYSTEM USING AN IOT"**

*has been successfully completed by*

**Mr. Yash J. Mahalle**

**Mr. Yash D. Nistane**

**Mr. Himanshu P. Khode**

*in satisfactory manner as a partial fulfilment of Degree  
of Bachelor of Engineering in (Electronics &  
Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022.*



*[Signature]*  
20/11/22

**Dr. N.P. Dhole**

Guide,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
20/11/2022.

**Dr. S. M. Deshmukh**

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
**External Examiner**

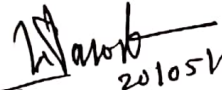
# CERTIFICATE

This is to certify that the project report entitled  
"Human Body Action Tracking And Recognition Using  
Elm Algorithm"

has been successfully completed by  
Ashutosh Jatale,  
Lokesh Baraskar,  
Abhishek Deshmukh

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022




  
20/05/2022  
Prof. Rashmi A. Wakode

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

  
20/05/2022  
Dr. S. M. Deshmukh

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

External Examiner



# CERTIFICATE

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Lokesh Baraskar,  
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in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022



*Rashmi A. Wakode*  
20/05/2022  
Prof. Rashmi A. Wakode

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*S. M. Deshmukh*  
21/05/2022  
Dr. S. M. Deshmukh

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
External Examiner

## CERTIFICATE

*This is to certify that the project report entitled*  
**HOUSE PRICE PREDICTION USING MACHINE**  
**LEARNING**

*has been successfully completed by*

*Mr. Priyank G. Gulhane*

*Mr. Raunak P. Malpani*

*Miss Purva G. Tiwari*

*in satisfactory manner as a partial fulfilment of*  
*Degree of Bachelor of Engineering in*  
*(Electronics & Telecommunication Engineering)*  
*Sant Gadge Baba Amravati University, Amravati*  
*during the academic year 2021-2022*



**Dr. N.P. Dhole**

*Guide,*

*Department of EXTC Engg.*

*PRM Institute Of Technology & Research, Badnera*

**Dr. S. M. Deshmukh** 31/01/2022

*Head,*

*Department of EXTC Engg. PRM*

*Institute Of Technology & Research, Badnera*

**External Examiner**



# CERTIFICATE

This is to certify that the project report entitled  
"Smart Dustbin for Smart City with SMS Alert"

has been successfully completed by

Maitrey P. Sabale

Mrudang S. Ghadekar

Shritej V. Ronghe

in satisfactory manner as a partial fulfilment of

Degree of Bachelor of Engineering in

(Electronics & Telecommunication Engineering)

Sant Gadge baba Amravati University, Amravati

during the academic year 2021-2022



*M. D. Ingole*

Prof. Mrs. M. D. Ingole

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*S. M. Deshmukh*

Dr. S. M. Deshmukh

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*S. P. Badakh*  
B.P. Badakh 02/06/2022

External Examiner

# CERTIFICATE

This is to certify that the project report entitled  
"Improving Quality of Older Painting  
Using Digital Image Processing"  
has been successfully completed by

Prajwal Deore  
Roshani Khade  
Shantanu Deshmukh

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*Mouli*

**Prof. Mrs. M. D. Ingole**

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Dr. S. M. Deshmukh*

20/05/2022

**Dr. S. M. Deshmukh**

Head

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*S.S. Budan*  
20/06/2022  
**External Examiner**



# CERTIFICATE

This is to certify that the project report entitled  
“Traffic Sign Recognition For Autonomous  
Vehicle Using Raspberry Pi”

has been successfully completed by

1. Ku. Twinkle A. Gophane
2. Ku. Vishakha M. Deshmukh
3. Ku. Ruchita S. Jawanjale

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022



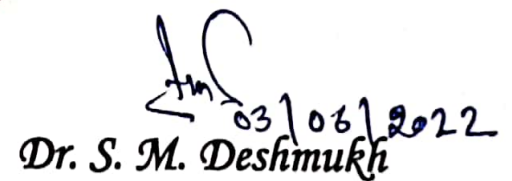


Prof. A. S. Utane

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

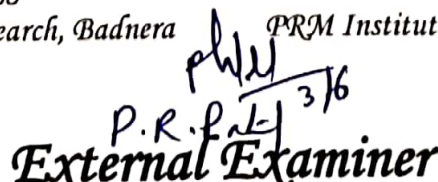
  
03/06/2022

Dr. S. M. Deshmukh

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

  
P. R. Patil  
3/6  
External Examiner

# CERTIFICATE

This is to certify that the project report entitled

**"Smart Health Diagnostics System"**

has been successfully completed by

**Nachiket Deshmukh**

**Sagar Dhote**

**Abhijeet Galat**

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*[Signature]*  
24/05/2022  
Prof. Amol Mahore  
Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
24/05/2022  
Dr. S. M. Deshmukh  
Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
3/6/2022  
P.R. Patil  
External Examiner



# CERTIFICATE

*This is to certify that the project report entitled*

***“VISION BASED SPYBOT WITH OBJECT  
INDENTIFICATION & TRACKING”***

*has been successfully completed by*

***Abhishek Kadu***

***Dhanashree Dhole***

***Poonam Bramhanwade***

*in satisfactory manner as a partial fulfilment*

*Degree of Bachelor of Engineering in*

***(Electronics & Telecommunication Engineering)***

*Sant Gadge baba Amravati University, Amravati*

*during the academic year 2020-2021.*



*A. S. Utane*

***Prof. A. S. Utane***

*Guide*

*Department of EXTC Engg.*

*PRM Institute Of Technology & Research, Badnera*

*S. M. Deshmukh*  
23/05/2022

***Dr. S. M. Deshmukh***

*Head,*

*Department of EXTC Engg.*

*PRM Institute Of Technology & Research, Badnera*

*P. R. Patil*  
03/06/2022

***External Examiner***



## CERTIFICATE

*This is to certify that the project report entitled*

***“MITRA-The Placement Portal”***

*has been successfully completed by*

***Sakshi Gadge***

***Shraddha Vyas***

***Shrushti Dumre***

*in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022.*



*[Signature]*  
**Dr. Nikkoo Khalsa**

Guide

Department of EXTC Eng.

PRM Institute of Technology & Research,  
Badnera

*[Signature]*  
**Dr. S. M. Deshmukh**

Head,

Department of EXTC Eng.

PRM Institute of Technology & Research,  
Badnera

*[Signature]*  
**P.R. Patil**  
External Examiner

# CERTIFICATE

This is to certify that the project report entitled  
**"IOT ENABLE UNDERGROUND DRAINAGE MONITORING SYSTEM  
USING WATER FLOW SENSOR AND GAS SENSOR"**

has been successfully completed by

*Rasika D. Shelke*

*Apeksha S. Burande*

*Kajal V. Khadse*

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*mjoshi*  
*24/5/2022*  
Prof. Mrs. M. S. Joshi

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*JmS*  
*2*  
Dr. S. M. Deshmukh

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*SM*  
*BS*  
*02/06/2022*  
External Examiner

# CERTIFICATE

This is to certify that the project report entitled

**"SMART WATER METER"**

has been successfully completed by

**Nidhi V. Thaker**

**Dharti H. Datir**

**Divya D. Kaware**

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022.

*mjoshi*  
30/5/22  
**Prof. Mrs. M. S. Joshi**

**Guide**

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

*SM*  
30/5/2022  
**Dr. S. M. Deshmukh**

**Head**

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

*SM*  
B. S. Badnera  
02/06/2022  
**External Examiner**



# CERTIFICATE

This is to certify that the project report entitled  
"Face mask detection and temperature sensing device"

has been successfully completed by


Mr. Ram S. Pachkawade

Mr. Gaurav J. Shinde

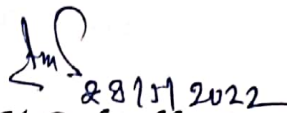
Mr. Rutvik R. Wagh

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022

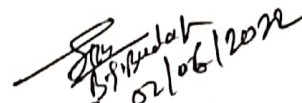


  
Prof. S. A. Nirmal  
Guide

Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

  
28/11/2022  
Dr. S. M. Deshmukh  
Head,

Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

  
02/06/2022  
External Examiner

# CERTIFICATE

This is to certify that the project report entitled

**“SMART HEALTH MONITORING SYSTEM USING IOT”**

has been successfully completed by

**NITESH B. MESHRAM**

**DHANASHRI G. GHAGARE**

**AJAY G. SANGOLE**

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



**Prof. A.B. PARDIKAR**

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

**Dr. S. M. Deshmukh**

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled

**"SMART WATER METER"**

has been successfully completed by

*Nidhi V. Thaker*

*Dharti H. Datir*

*Divya D. Kaware*

in satisfactory manner as a partial fulfilment of

Degree of Bachelor of Engineering in

(Electronics & Telecommunication Engineering)

Sant Gadge Baba Amravati University, Amravati

during the academic year 2021-2022.

*mjoshi*  
*30/5/22*  
**Prof. Mrs. M. S. Joshi**  
**Guide**

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

*Dr. S. M. Deshmukh*  
*30/5/2022.*  
**Dr. S. M. Deshmukh**  
**Head**

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

*S. M. Deshmukh*  
*B.T. Badnera*  
*02/06/2022*  
**External Examiner**



# CERTIFICATE

This is to certify that the project report entitled  
**"IOT ENABLE UNDERGROUND DRAINAGE MONITORING SYSTEM  
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*Rasika D. Shelke*

*Apeksha S. Burande*

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Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022



*mjoshi*  
24/5/2022  
Prof. Mrs. M. S. Joshi

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*AmS*  
Dr. S. M. Deshmukhi

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Dr. B. T. Budruk*  
02/06/2022  
External Examiner

# CERTIFICATE

*This is to certify that the project report entitled  
“Google Assistant Controlled Home Automation”*

*has been successfully completed by*

**Miss. Renuka S. Agarkar**

**Miss. Anushri A. Raut**

**Miss. Neha C. Gudadhe**


*in satisfactory manner as a partial fulfillment of Degree of  
Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati during  
the academic year 2021-2022*

  
**Prof. S. S. Tantarvale**

*Guide*

*Department of EXTC Engg.*


*PRM Institute Of Technology & Research, Badnera*

  
**Dr. S. M. Deshmukh**

*Head,*

*Department of EXTC Engg.*

*PRM Institute Of Technology & Research, Badnera*

  
**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled  
**"DIGITAL IMAGE WATERMARKING PROCESS  
USING PYTHON"**

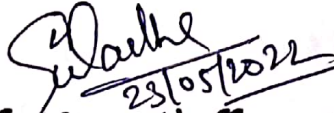
has been successfully completed by

Mr. PUSHPAK P. HIRODE

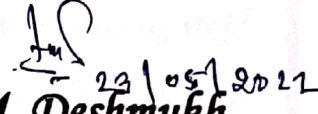
Ms. SHARAYU S. DANGE

Ms. GAYATRI R. KAJE

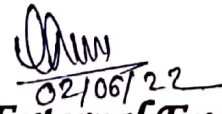
in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022.

  
23/05/2022  
Prof. N. S. Wadhe  
Guide

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

  
23/05/2022  
Dr. S. M. Deshmukh  
Head

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

  
02/06/22  
External Examiner



# CERTIFICATE

This is to certify that the project report entitled  
"Wireless Water Level Indicator With Municipal Water  
Supply Indication"

has been successfully completed by

Pranalee D. Uke

Achal S. Pohekar

Arpita R. Sirsat

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*Ms. S. S. Tantarale*  
20/05/22

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Dr. S. M. Deshmukh*  
21/05/2022

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*External Examiner*  
02/06/22

# CERTIFICATE

This is to certify that the project report entitled

**"Smart Covid Prevention Door Using IOT"**

has been successfully completed by

Mr. Vishal Dilip Dongare

Mr. Ankit Anil Rajgure

Mr. Saurabh Anilrao Khodaskar

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*V. U. Kale*  
31/05/22  
Prof. V. U. Kale

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*S. M. Deshmukh*  
31/05/2022  
Dr. S. M. Deshmukh

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
02/05/22  
External Examiner




# CERTIFICATE


This is to certify that the project report entitled  
**"VEHICLE DATA ACQUISITION SYSTEM"**

has been successfully completed by  
**Mr. Manojkumar Kude**      **Miss. Shraddha Gadhiakar**  
**Miss. Ishwari Pandav**


in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022.

  
**Prof. V. U. Kale**  
**Guide**

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

  
**Dr. S. M. Deshmukh**  
**Head**

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

  
**External Examiner**



# CERTIFICATE

This is to certify that the project report entitled  
**"MORPHOLOGICAL BACKGROUND DETECTION AND  
ENHANCEMENT OF IMAGES WITH POOR LIGHTING"**

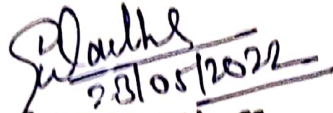
has been successfully completed by

Ms. Samruddhi G. Thakare

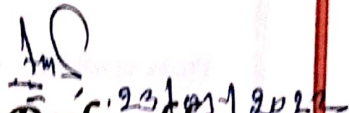
Ms. Rutuja S. Deshmukhi

Mr. Anand M. Bhakare

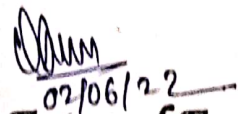
in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022.

  
28/05/2022  
**Prof. N. S. Wadhe**  
**Guide**

Department of E&TE Engg.  
PRM Institute Of Technology & Research,  
Badnera

  
23/05/2022  
**Dr. S. M. Deshmukhi**  
**Head**

Department of E&TE Engg.  
PRM Institute Of Technology & Research,  
Badnera

  
02/06/22  
**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled  
"IOT BASED HEART ATTACK DETECTION  
SYSTEM"

has been successfully completed by

*Chaitanya P. Deole*

*Anand S. Fulkari*

*Ashwini R. Dabhade*

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*Prof. Ms. P. R. Lawhale*

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research,  
Badnera

*Dr. S. M. Deshmukh*

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Ashin*  
External Examiner



# CERTIFICATE

This is to certify that the project report entitled

**"Stock Price Prediction"**

has been successfully completed by

**Shreyash Morey**

**Vivek Tidke**

**Kunal Patil**

in satisfactory manner as a partial fulfilment of

Degree of Bachelor of Engineering in

(Electronics & Telecommunication Engineering)

Sant Gadge Baba Amravati University, Amravati

during the academic year 2021-2022



*[Signature]*  
20/5/22  
**Prof. Ms. P. R. Lawhale**

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
20/05/2022  
**Dr. S. M. Deshmukh**

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
**Acting  
External Examiner**



# CERTIFICATE

This is to certify that the project report entitled  
“*Iot Covid Patient Health Montior in Quarantine*”

has been completed by

**Mr. Rahul G. Masram**

**Mr. Harshal P. Kadam**

**Mr. Sanjog Satpute**

in a satisfactory manner as partial fulfillment of the  
degree of Bachelor of Engineering in  
(*Electronics & Telecommunication Engineering*)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*[Signature]*  
**Prof. N.C. Band**

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
**Dr. S. M. Deshmukh**

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled

**"Health Care Monitoring System Using Iot"**

has been successfully completed by

1. Ku. Pooja P. Ingle
2. Ku. Rashmi A. Jadhav
3. Sanket M. Pakade

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*Rashmi A. Wakode*  
21/05/2022  
Prof. Miss. Rashmi A. Wakode

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*S. M. Deshmukh*  
25/05/2022  
Dr. S. M. Deshmukh

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Asat*  
External Examiner



# CERTIFICATE

This is to certify that the project report entitled  
“Underground Fault Detection In Cable Using IOT”

has been successfully completed by

Mr. Tanay Diwakar Bobade Ms. Resha Kishor Suryawanshi  
Mr. Prasannakumar Rajendra Umap

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*Zade*  
30/05/22

**Prof. S. P. Zade**

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Dr. S. M. Deshmukh*  
30/05/2022

**Dr. S. M. Deshmukh**

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Patil*  
**External Examiner**



# CERTIFICATE

This is to certify that the project report entitled  
**"Picking Object By Using Robotic Arm"**  
has been successfully completed by

**Hrutwik Dabhade**  
**Rushant Thakare**  
**Jayesh Kolhe**

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*Patil*

**Prof. G. D. Patil**

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Dr. S. M. Deshmukh*  
31/5/2022

**Dr. S. M. Deshmukh**

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Dr. S. M. Deshmukh*  
**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled

**“Health Care Monitoring System Using Iot”**

has been successfully completed by

1. Ku. Pooja P. Ingle
2. Ku. Rashmi A. Jadhav
3. Sanket M. Pakade

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*Wakode*  
21/05/2022  
**Prof. Mrs. Rashmi A. Wakode**  
Guide  
Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Dr. S. M. Deshmukh*  
23/05/2022  
**Dr. S. M. Deshmukh**  
Head,  
Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Antina*  
**External Examiner**



## CERTIFICATE

This is to certify that the project report entitled  
**HOUSE PRICE PREDICTION USING MACHINE  
LEARNING**

has been successfully completed by

Mr. Priyank G. Gulhane

Mr. Raunak P. Malpani

Miss Purva G. Tiwari

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022



Dr. N.P. Dhole

Guide,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

Dr. S. M. Deshmukh

Head,

Department of EXTC Engg. PRM

Institute Of Technology & Research, Badnera

External Examiner



# CERTIFICATE

This is to certify that the project report entitled  
"IOT Garbage Monitoring with Weight Sensing"  
has been successfully completed by

Mohit Therey  
Prachi Adhau  
Yash Shrungare

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022



*Belsare*  
27/05/2022

Prof. K. S. Belsare

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Dr. S. M. Deshmukh*  
27/05/2022

Dr. S. M. Deshmukh

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Subhash*  
External Examiner

# CERTIFICATE

*This is to certify that the project report entitled*  
***Biometric Fingerprint Attendance System Using NodeMCU***  
*is a bonafide work and it is submitted to the*  
***Sant Gadge Baba Amravati University, Amravati***  
*has been successfully completed*

By

*Maithili Mahalle*  
*Gayatri Dahake*  
*Ruchita Pokale*  
*Priyanka Bhagyawant*

*in the partial fulfilment of the requirement for the degree of*  
***Bachelor of Engineering in Electronics & Telecommunication***  
***Engineering***

*during the academic year 2021-2022 under my guidance.*



*A. D. Kadu*

**Prof. A. D. Kadu**  
Guide

Department of EXTC Engg.  
Prof. Ram Meghe Institute of Technology &  
Research, Bandera

*S. M. Deshmukh*

**Dr. S. M. Deshmukh**  
Head,

Department of EXTC Engg.  
Prof. Ram Meghe Institute of Technology &  
Research, Bandera

*[Signature]*  
**External Examiner**



# CERTIFICATE

This is to certify that the project report entitled

**"Health Care Monitoring System Using Iot"**

has been successfully completed by

1. Ku. Bhagyashree T. Patil
2. Ku. Shraddha V. Koche
3. Ku Shweta R. Pathak

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



**Dr. Prof. Sharad W. Mohod**

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

**Dr. S. M. Deshmukh**

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

**External Examiner**



# CERTIFICATE

This is to certify that the project report entitled  
"ESP32 CAM Surveillance SPY Camera Car"

has been successfully completed by

Mr. Abhishek S. Sharma      Miss Samruddhi C. Padole

Ruchika V. Patil

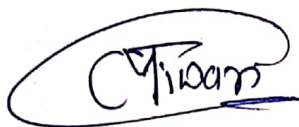
in satisfactory manner as a partial fulfilment of

Degree of Bachelor of Engineering in

(Electronics & Telecommunication Engineering)

Sant Gadge Baba Amravati University, Amravati

during the academic year 2021-2022.



**Prof. M. V. Tiwari**  
**Guide**

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera



**Dr. S. M. Deshmukh**  
**Head**

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera



**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled

**"Smart Mirror Using Raspberry Pi"**

has been successfully completed by

**Mr. Sahil K. Hiwase**

**Mr. Altamash A. Malnas**

**Mr. Adarsh S. Bhagat**

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022



*Prof. S.A. Nirmal*

**Prof. S.A. Nirmal**

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Dr. S. M. Deshmukhi*

**Dr. S. M. Deshmukhi**

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*External Examiner*



# CERTIFICATE

This is to certify that the project report entitled  
"Multi-Directional Surveillance Security System  
Based on IoT"

has been completed by


Ritul S. Bhople

Abhijeet S. Dhore

Shravani G. Chavan

in a satisfactory manner a partial fulfilment  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



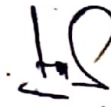
  
24.05.22

Dr. S. W. Mohod

Guide

Department of EXTC Engg.

PRM Institute of Technology & Research, Badnera

  
31/05/2022

Dr. S. M. Deshmukh

Head,

Department of EXTC Engg.

PRM Institute of Technology & Research, Badnera

  
EXTERNAL EXAMINER

# CERTIFICATE

This is to certify that the project report entitled  
"WIRELESS NOTICE BOARD USING ARDUINO  
UNO"

has been successfully completed by  
Kuwar B. Sawai Sangam G. Wankhade

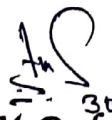
Sumit S. Kamble

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



  
30-05-2022  
Dr. S. V. Pattalwar

Guide  
Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

  
30/5/2022  
Dr. S. M. Deshmukh

Head,  
Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

  
External Examiner



# CERTIFICATE

This is to certify that the project report entitled

*“Intelligent Traffic Signaling Priority  
System For Ambulance or Fire Brigade”*

has been successfully completed by

*Yashwant Chukka*

*Ashish Lasurkar*

*Tushar Patil*

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*Zade*  
30/05/22

**Prof. Shashank P. zade**

Guide

Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

*Dr. S. M. Deshmukh*  
30/05/2022

**Dr. S. M. Deshmukh**

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Dr. S. M. Deshmukh*  
**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled  
**"COTTON QUALITY DETECTION TECHNIQUE  
USING IMAGE PROCESSING"**

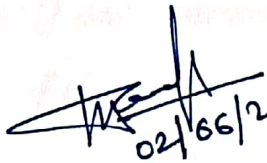
has been successfully completed by

**MS. POOJA S. NITNAWARE**

**MS. KALYANI V. PAVITRAKAR**


**MR. MOHAMMAD SUFIYAN**

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022.

  
02/06/22

**Prof. Mr. V. J. Babrekar**  
**Guide**

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

  
02/06/2022

**Dr. S. M. Deshmukh**  
**Head**

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

  
**External Examiner**



# CERTIFICATE

This is to certify that the project report entitled  
**“Transformer Health Monitoring and control  
by using Arduino and GSM”**

has been successfully completed by

**Minal Manoj Janai**

**Richa Deepakrao Bhagat**

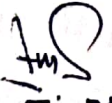
**Vaishnavi Punjab Ghode**

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022.



  
**Prof. A. B. Pardikar**

Guide  
Department of EXTC Engg.  
PRM Institute Of Technology & Research, Badnera

  
**Dr. S. M. Deshmukh** 01/06/2022

Head,  
Department of EXTC Engg.  
PRM Institute of Technology & Research, Badnera

  
**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled  
**"AN INTEGRATED CLOUD-BASED SMART HOME MANAGEMENT  
SYSTEM WITH COMMUNITY HIERARCHY"**

has been successfully completed by

**Shon M. Thakare**

**Yash S. Jaiswal**

**Vaishnavi S. Deshmukh**

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*[Signature]*

**Prof. A.D. Kadu**

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*

**Dr. S. M. Deshmukh**

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
**External Examiner**



# CERTIFICATE

This is to certify that the project report entitled

*“Automatic Sanitizer Dispenser”*  
has been successfully completed by

*Akashay Raut*

*Shritej Bhokare*

*Amansingh Baghele*

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*M.K. Shriwas*

**Prof. M.K. Shriwas**  
Guide,  
Department of EXTC Engg.  
PRMIT&R, Badnera

*S.M. Deshmukhi*  
28/1/2022

**Dr. S. M. Deshmukhi**  
Head,  
Department of EXTC Engg.  
PRMIT&R, Badnera

*A.V. Sable*  
02/06/2022  
**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled  
"Overtaking Assistant System"

has been successfully completed by

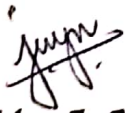
1. Sanket D. Hedau
2. Saurabh S. Bagde
3. Shrikant V. Tipartiwar
4. Vaishnav S. Hedao
5. Yadnyesh G. Taral

in satisfactory manner as a partial fulfilment of Degree of  
Bachelor of Engineering in

(Electronics & Telecommunication Engineering)

Sant Gadge baba Amravati University, Amravati

during the academic year 2018-2019.



Prof. Mrs J. N. Ingole

Guide



Dr. C. N. Deshmukhi

Head

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING



# CERTIFICATE

This is to certify that the project report entitled

**“Automatic Paralysis Patient Healthcare System”**

has been successfully completed by

Miss. Saloni P. Tambakhe

Miss. Gauri S. Khadatkar

Miss. Vaishnavi P. Suryawanshi

in satisfactory manner as a partial fulfillment of Degree of  
Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati during  
the academic year 2021-2022



*Belsare*  
27/5/2022  
Prof. K. S. Belsare

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Dr. S. M. Deshmukh*  
27/05/2022  
Dr. S. M. Deshmukh

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*External Examiner*  
External Examiner

# CERTIFICATE

This is to certify that the project report entitled  
"SMART BAND FOR WOMEN SAFETY USING IOT"  
has been successfully completed by

Siddhant A. Uke

Piyush K. Ghatol

Sarang R. Lakadkar

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022



*[Signature]*

Prof. M. K. Shriwas  
Guide

Department of EXTC Engg.  
PRMIT&R Institute Of Technology & Research,  
Badnera

*[Signature]* 03/06/2022

Dr. S. M. Deshmukh  
Head,

Department of EXTC Engg.  
PRMIT&R Institute Of Technology & Research,  
Badnera

*[Signature]*  
External Examiner



# CERTIFICATE

This is to certify that the project report entitled  
"Automatic Sanitizer Dispenser"  
has been successfully completed by

Akashay Raut

Shritej Bhokare

Amansingh Baghele

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022



*M.K. Shriwas*

Prof. M.K. Shriwas  
Guide,  
Department of EXTC Engg.  
PRMIT&R, Badnera

*S.M. Deshmukhi*  
28/5/2022

Dr. S. M. Deshmukhi  
Head,  
Department of EXTC Engg.  
PRMIT&R, Badnera

*A.V. Sable*  
3/11/2022  
External Examiner

# CERTIFICATE

*This is to certify that the project report entitled*

*“Iot based bus seats Vacancy unit for roadways”*

*has been successfully completed by*

**Abhishek S. Kaware**

**Harshal V. Jambhulkar**

**Bhuvan R. Ganeshkar**

*in satisfactory manner as a partial fulfilment of*

*Degree of Bachelor of Engineering in*

*(Electronics & Telecommunication Engineering)*

*Sant Gadge baba Amravati University, Amravati*

*during the academic year 2021-2022*



*[Signature]*  
21/6/22

**Prof. V.J. Babrekar**

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
02/06/2022

**Dr. S. M. Deshmukh**

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*[Signature]*  
VB Salu  
**External Examiner**



# CERTIFICATE

This is to certify that the project report entitled  
**"IOT BASED SMART SOLAR FLOWER"**

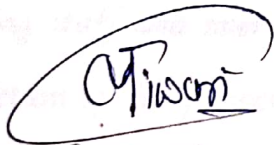
has been successfully completed by

Mr. Kshitij V. Bokey

Mr. Prashik R. Bhalerao

Mr. Rushikesh D. Kawal

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge Baba Amravati University, Amravati  
during the academic year 2021-2022.



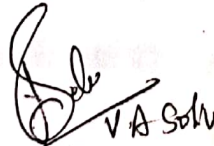
**Prof. M. V. Tiwari**  
**Guide**

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera



**Dr. S. M. Deshmukh**  
**Head**

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera



**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled

**"FACE MASK DETECTION SYSTEM"**

has been successfully completed by

Mr. Kedar M. Kulkarni

Mr. Ujjwal R. Rotele

Mr. Chinmay D. Tawari

in satisfactory manner as a partial fulfilment of

Degree of Bachelor of Engineering in

(Electronics & Telecommunication Engineering)

Sant Gadge Baba Amravati University, Amravati

during the academic year 2021-2022.

*J.N. Ingole*  
26/5/22  
Miss Prof. J.N. Ingole

Guide

Department of EATC Engg.  
PRM Institute Of Technology & Research,  
Badnera

*S.M. Deshmukh*  
20/6/2022  
Dr. S. M. Deshmukh

Head

Department of EATC Engg.  
PRM Institute Of Technology & Research,  
Badnera

*V.P. Khavkar*  
02.06.2022  
External Examiner

(Prof. V.P. Khavkar)



# CERTIFICATE

This is to certify that the project report entitled

**"ARDUINO BASED ALCOHOL SENSE ENGINE LOCK USING GSM & GPS"**

has been successfully completed by

**Saksham D. Punase**

**Rohit N. Kalpande**

**Sahil J. Rupnarayan**

**Shivam H. Panditkar**

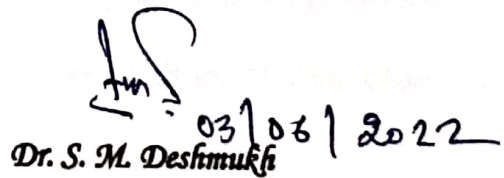
in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



  
03-06-2022

**Dr. S. V. Patalwar**

Guide

  
03/06/2022

**Dr. S. M. Deshmukhi**

Head,

Department of EXTC Engg.  
PRM Institute Of Technology & Research,  
Badnera

Department of EXTC Engg  
PRM Institute Of Technology & Research, Badnera

  
**External Examiner**

# CERTIFICATE

This is to certify that the project report entitled

*"Image processing based salesman detection"*

has been successfully completed by

*Yuganti S Taywade*

*Indrayani S Jolhe*

*Aanchal K Kale*

in satisfactory manner as a partial fulfilment of  
Degree of Bachelor of Engineering in  
(Electronics & Telecommunication Engineering)  
Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022



*Prof N C Band*

Guide

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*Dr. S. M. Deshmukhi*

Head,

Department of EXTC Engg.

PRM Institute Of Technology & Research, Badnera

*External Examiner*



# CERTIFICATE

This is to certify that the *dissertation* entitled  
**“DIP based Smart Transportation and Fire  
Detection in Industrial Environment using IoT”**

has been successfully completed by

**Ms. Neha W. Randhe**

in a satisfactory manner as partial fulfillment of  
Degree of Master of Engineering (Part-Time) in  
(Digital Electronics)

Sant Gadge baba Amravati University, Amravati  
during the academic year 2021-2022.



**Dr. S. V. Pattalwar**

*Co-Guide*  
Department of Electronics &  
Telecommunication  
Engineering  
Prof. Ram Meghe Institute of  
Technology & Research,  
Badnera-Amravati

**Prof. Dr. S. W. Mohod**

*Guide*  
Department of Electronics &  
Telecommunication  
Engineering  
Prof. Ram Meghe Institute of  
Technology & Research,  
Badnera-Amravati

**Dr. S. M. Deshmukh**

*Head*  
Department of Electronics &  
Telecommunication  
Engineering  
Prof. Ram Meghe Institute of  
Technology & Research,  
Badnera-Amravati



**Principal**  
Prof. Ram Meghe Institute of  
Technology & Research,  
Badnera-Amravati