



Department of Electrons & Communication Engineering

A.Y:2022-23

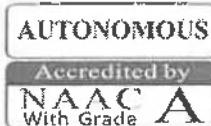
List of Major Projects

S. No	REG No	NAME OF THE STUDENT	INTERNAL GUIDE	PROJECT TITLE
A1	19H71A0453	NEDUNURI VENKATA SRI PRANATHI	Dr. CH. PULLARAO	Image Enhancement and Image Restoration Methods for underwater images
	19H71A0437	MAJETY SAI MAHIDAR TARUN		
	19H71A0430	SIMHADRI POOJITHA GAYATHRI		
	20H75A0409	TATIPARTHI KALYAN		
A2	19H71A0403	THANNERU ASRITHA	Mr. B.R.K. SINGH	Arduino Based Smart College Bus and Student identification System Using RFID
	19H71A0418	SURISETTI LAKSHMI MADHURI		
	19H71A0401	SYED ABDUL JAMEER		
	20H75A0406	NALLAMOTHU GIRIBABU		
A3	19H71A0405	ANYAM BHARGAVI	Dr. B. PRAGATHI	A smart Autonomous Floor cleaner with an Android based Controller
	19H71A0406	KONETI BHARGAVI		
	19H71A0404	NANDIGAM BHANU PRAKASH		
	19H71A0415	KOTTURI KRISHNA KANTH		
A4	19H71A0449	KAPA SRUJANA	Dr. P. RAJANI KUMARI	IoT-Ready Energy-Autonomous Parking Sensor Device
	19H71A0420	KOSARAJU MAHITH SAI		
	20H75A0407	SURE GOPI KRISHNA		
	19H71A0440	DANDU SAI UDAY KIRAN		
A5	19H71A0438	MANUBOTHU SAI RAMYA SRI	Dr. K. Michael Angelo	Design and Development of human tracking robot
	19H71A0450	POTTI SUPRAJA		
	19H71A0413	DESETTI HARIKA BHAVANI		
	19H71A0436	MADDELA RESHMA		
A6	19H71A0439	RAMANUJAM SAI TANUJA	Mr. M. ANIL KUMAR	Automatic Pill Reminder and Alert System
	20H75A0401	JIDUGU ADISURYA		
	20H75A0405	PATNALA DURGA RAO		
	19H71A0441	SHAIK SAIDHA GOPI		
A7	19H71A0419	GINJUPALLI LIKITHA	Mrs. G. ANANTHA LAKSHMI	Speaking System for Mute People using hand gestures
	19H71A0447	MARKAPURAPU SRI LAKSHMI SAI NOHITHA		
	19H71A0425	NEMALIPURI NAVEEN		
	19H71A0431	MALAMANTI		



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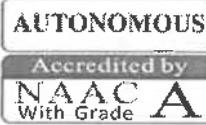


A8	PRABHUKOTI VARMA 19H71A0445 19H71A0417 19H71A0448 20H75A0403	NADAKUDITI SRAVANI TULAGAPU KUMARI JONNALAGADDA SRIKANTH BELLAMKONDA BULLI RAJA	Mr. M. NAGESWARA RAO	Artificial Electric Field Algorithm for Multilevel Image Thresholding
A9	19H71A0411 19H71A0423 20H75A0408 19H71A0435	PENDLI DURGA PRASAD BADITHA NAGENDRA BABU KAKANI HEMANTH KUMAR RAJU GOLLAMANDALA	Mrs. T. SRIDEVI	Face recognition based attendance management system using raspberry pi
A10	19H71A0443 19H71A0455 19H71A0434 19H71A0433	SEEMA AFREEN KHAN MOORABOINA VENKATA VIJAY TUNGALA RAJA VADDADI RAJA RAJESWARI	Mr. K. VEENANAND	Leaf Disease Detection And Automatic Pesticide Spraying Control Robot Using Raspberry Pi
A11	19H71A0454 19H71A0409 19H71A0444 19H71A0414	DODDA VENKATA SUSHMA SHAIK DAVOOD IBRAHIM SHAIK SHABUL BANDARI JASWANTH	Mr. CH. LAKSHMANA	Visibility detection based on the Recognition of the Preceding Vehicles under Foggy Weather
A12	19H71A0402 19H71A0422 20H75A0411	GADDE ASRITHA POTHINA MOHAN BABU NALLAGANGULA LAKSHMI DURGA	Mr. T. VIJAYA KANTH	wireless Healthcare Sensing & Monitoring System for Medical Communication In IOT
A13	19H71A0428 19H71A0452 20H75A0404 19H71A0442	KONAGALA PAVANI PULI VENKATA SAI KARTHIK CHARAN PASUPULETI KUNDA SARATH	Mr. G. KIRAN KUMAR	Smart Bin for Waste Management System
A14	19H71A0426 19H71A0412 19H71A0410 19H71A0424	TALLAPUREDDY NAVYA SREE BANDARU GOWTHAM SAI ANDRAJU DURGA PRASAD KANDIMALLA NAVEEN	Dr. P. RAJANI KUMARI	LoRa based purification for irrigation
A15	19H71A0451 19H71A0457 19H71A0407	EARLA VENKATA SAGAR NAKKA YAGNESWARA REDDY PULLAMSETTY BHAVYASRI	Mr. T. NARENDRA	IoT Based Surveillance System for children stuck inside the car ,monitoring and controlling system
A16	19H71A0427 20H75A0402 19H71A0456	CHINTALA NEHITHA DEVI GORANTLA ANAND SAI KUMAR PATNALA VENKATESH	Mrs. K. MANASA LAKSHMI	Smart Approach for E-health Moniting System
A17	19H71A0408 19H71A0429	SYAMALA BRAHMA REDDY AMPOLU POOJITHA	Mrs. B. RAJYA LAKSHMI	Gas Leakage Detection and Alerting System Using Arduino Uno



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	19H71A0432	AMARLAPUDI PRAVEEN KUMAR		
B1	19H71A0473	AMMINENI JAHNAVI	Mr. G. V. P. CHANDRA SEKHAR YADAV	ARDUINO BASED 2D CNC PLOTTER
	19H71A0481	SHAIK NAGULMEERA		
	19H71A0458	SAYYAD ABDULLA		
	19H71A0483	THOTA NAVEEN KUMAR		
B2	19H71A0492	KONDAPALLI RAMYA	Mr. S. RAMAKOTESWARA RAO	Face spoof detection using colour texture analysis
	19H71A0472	VATAPALLI HIMA THRISHA		
	19H71A0495	VEMULA SAI HARSHITHA		
B3	19H71A0469	TUMMALA HEMASRI	Mr. D. RAKESH	An Aqua Culture Monitoring System Using IOT
	20H75A0414	KALLEPALLI LIKITHA		
	19H71A0466	KURMALA DHANVANTAR B DATTA KUMAR		
	19H71A0490	KONDAVEETI RAM SAI KUMAR		
B4	19H71A0470	KUCHU HENA SANNUTHI	Mr. M. SAI GANESH	Underground Mine Air Quality Pollution Monitoring System Based on IOT Technology
	19H71A04A7	MUNGARA SYAM PAVAN		
	19H71A0468	BATTULA HARISH		
	19H71A04B2	KOMATI VANAJA LAKSHMI		
B5	19H71A04B6	MALLISSETTI AKHILA	Dr. K. MICHAEL ANGELO	Smart Wi-Fi Based Door bell circuit development for homes
	19H71A04F1	ANAPALA SAI TEJESWARA REDDY		
	19H71A0416	SINGAMSETTY KUMAR VARDHAN		
	19H71A0471	CHAMARTHI HIMA SREE		
B6	19H71A0462	SHAIK ARSHIYA	Ms S. NAGA LAKHSMI	Emergency Management and Accident Reporting System Using IoT
	20H75A0416	MEGHANA BURADAGUNTA		
	19H71A0480	MOHAMAD MUSTAFFA KHAN		
	19H71A0476	SARIPALLI LAHARI		
B7	20H75A0412	BANTUPILLI LAKSHMI PRIYANKA	Dr. CH. PULLARAO	Low Light Image Signal Processing Net With Two Stage Network
	19H71A0486	BONAM PRASANTH RAJU		
	19H71A04B0	CHILAPARAPU VAMSI		
	19H71A0475	JAVVADI KAVYA SRI		
B8	20H75A0415	TUPAKULA MAHESH	Mr. B.R.K. SINGH	Smart room - A gesture controlled technology
	19H71A04A2	MUDAGANI SRIDHAR		
	19H71A0494	CHENNAAPRAGADA SADHANA		
	19H71A0460	CHEPURI ADITYA SAI AKHIL		
B9	19H71A0467	SIVARATRI GAYATRI	Dr. B. PRAGATHI	IoT Based Water Management system
	20H75A0417	KANDULA NAVEEN KUMAR		



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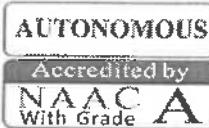
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	19H71A0464	AREPALLI BHAVANA RANI		
B10	19H71A0484	JAKKEPALLI NIHILA SRI	Dr. P. RAJANI KUMARI	
	19H71A04A8	TUMMALAGUNTA TANMAI PRIYA		Vehicle to Vehicle Communication Using Li-Fi Technology
	19H71A0499	CHILLAPALLI SIVARAMAKRISHNA		
	19H71A0496	CHALAMALA SAI TEJA		
B11	19H71A04A1	ALLADA SRI NAGA SOWJANYA	Dr. K. MICHAEL ANGELO	
	19H71A04B3	VIPPARLA VANI		Development of smart Electricity meter for households based on existing infrastructure
	20H75A0426	LAGADAPATI UDAY BHASKAR		
B12	19H71A04B4	VADDE VARSHA SRI	Mr. M. ANIL KUMAR	
	19H71A04A3	DANDA SRIKANTH REDDY		A Real-time school bus tracking and monitoring system
	19H71A0487	BONAM PRAVEEN REDDY		
	19H71A0489	BATTULA RAJA		
B13	19H71A04A0	TEJA SOMANATH SAHU	Mrs. G. ANANTHA LAKSHMI	
	20H75A0413	VOLLU LAVANYA		
	19H71A04B1	KARRA VAMSI		Smart Cap: An IoT based Assistant for visually impaired people
	19H71A0465	VANKALAPATI DEEPAK		
B14	19H71A04A5	DABBURI SWAPNA	Mr. M. NAGESWARA RAO	
	19H71A0461	KUPPAKULA ANITHA		Pelican Optimization Algorithm -Based Cluster Head Selection For WSNs
	19H71A0482	VUNTA NARASIMHULU		
	19H71A0459	MOHAMMED ABEED		
B15	19H71A04A9	MEKA TEJASWINI	Mrs. T. SRIDEVI	
	19H71A0463	POLAVARAPU BHAGAVAN NARAYANA		Woman Safety Device using Node MCU
	19H71A0488	YEPURI PRUDHVI		
	19H71A0477	VUNNAM LIKHITHA		
B16	19H71A0493	KALAVALA RITHEESH REDDY	Mr. K. VEENANAND	" POWER SHOE: PIEZOELECTRIC WIRELESS POWER TRANSFER - A MOBILE CHARGING TECHNIQUE"
	19H71A0497	KUPPALA SAMHITHA		
	19H71A0491	GARMIDI RAMYA		
	19H71A0478	KAMA MAHESH		
C1	19H71A04E6	SHAIK RUKSANA	Mr. CH. LAKSHMANA	IOT based pregnant women health care monitoring system for prenatal care
	19H71A04F2	SHAIK SAMEERA SUHEL		
	19H71A04D1	KANKIPATI L A S SATHWIKA		
	19H71A04D6	DUDDE MELONICA		
C2	19H71A04E7	BANDLA SAHITHI	Mr. T. VIJAYA KANTH	An IOT-Based Automatic Luminosity and Soil Moisture Control System for Potting Shed
	19H71A04B5	GADDE AKANKSHA		
	19H71A04G1	CHILAKA VENKATA SRI HARSHA		



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C3	19H71A04F4	BOYINA SOWJANYA	Mr. G. KIRAN KUMAR	Autonomous Delivery Robot
	19H71A04C9	GUDDURU KEERTHI		
	19H71A04D0	MADDURU KOTESWARAMMA		
	20H75A0425	PATAPANCHULA TRINADH		
C4	19H71A04E8	VEMPATI SAI KRISHNA	Mr. M. ANIL KUMAR	Prevalence and Early detection of diabetes using machine learning
	19H71A04G3	KURITI VENU		
	19H71A04F7	MUNDRU TIRUMALA RAO		
	19H71A04D8	PURAMSETTY NAGA HARSHITHA		
C5	19H71A04G5	PALLANTI YESASWANI	Mr. T. NARENDRA	An IoT Based Coal Mine Safety and Health Monitoring System using LoRaWAN
	19H71A04C4	HANI PRIYA MANDRU		
	20H75A0423	NUTHALAPATI SHARATH CHAND		
	19H71A04E2	GUDIPUDI PRAVALLIKA		
C6	19H71A04B7	SHAIK AMEER HAMZA	Mrs. K. MANASA LAKSHMI	
	19H71A04D5	BOLEM MANI KANTA		
	19H71A04F6	UPPULURU SURENDRA BABU		
	19H71A04D2	NEPPALLI LAKSHMI SAI RAMYA		
C7	19H71A04B8	SHALIKA ANILKUMAR	Mrs. B. RAJYA LAKSHMI	Line following robot with obstacle avoidance
	19H71A04C5	GALAM HARISH		
	20H75A0421	TOLU ROHINI CHOWDARY		
	19H71A04C0	KALYANAPU CHARISHMA		
C8	19H71A04F0	MADDALA SAI SRINIVAS	Mr. G. V. P. CHANDRA SEKHAR YADAV	Development of speaking system for muted people using hand gestures
	19H71A04E4	KALVA RAMYA		
	19H71A0485	CHILAKA NOVAHU		
	19H71A04C3	NAGOTHI GIRIDHAR		
C9	19H71A04E3	MANDADI RAMAKRISHNA	Mr. S. RAMAKOTESWARA RAO	
	19H71A04C1	KARUPATI DHARANI		
	19H71A04D7	GUDIVADA N S S M RANGA NANDHITHA		
	19H71A04F9	RACHAKONDA VANAJA		
C10	20H75A0419	SEELAM PRAVALLIKA	Mr. D. RAKESH	Early detection and prevention of cervical cancer
	19H71A04G2	MADDINENI VENKATESWARLU		
	19H71A04G6	GAMPA YUVA KIRAN		
	19H71A04B9	KATTA AVINASH SEKHAR		IOT Based Crop Protection System Against Birds and



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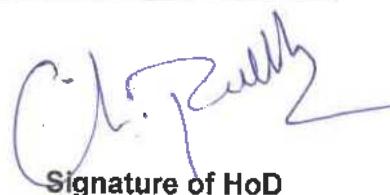
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	19H71A04C8	CHODAVARAPU KALYAN KUMAR		Wild Animal Attacks
	19H71A04G4	MANDALI YASHWANTH		
	20H75A0410	KAVYA APPALABHAKTULA		
C12	19H71A04C7	MADDI JYOTHI SRIVALLI	Mrs. G. ANANTHA LAKSHMI	Arduino Based ultrasonic map maker
	19H71A04E0	ANUMOLU NAVEEN SAI		
	20H75A0424	MAHANTHA SONIYA		
	19H71A04E9	BOJJA SAI SANDEEP		
	20H75A0420	MAKKALLA RAMYA		
C13	19H71A04E1	AMMULURI NISHANTH	Ms. S. NAGA LAKHSMI	IOT based baby monitoring system
	19H71A04E5	MOHITHE ROHAN		
	19H71A04D4	MUCHU MAHESH		
C14	19H71A04D9	YARRAGUNTA NARMADA	Dr. CH. PULLARAO	Named Entity Recognition using Natural Language Processing
	19H71A04C2	TANKASALA DURGA PRASAD		
	20H75A0427	BOINAPALLY UMESH CHAND		
	19H71A04F3	MESAPAM SANJAY KUMAR		
	18H71A04F8	SHAIK SAMAD ABHISHEK		
C15	19H71A04F5	PANCHAKARLA SURAJ KUMAR	Mr. B.R.K. SINGH	An IoT enabled voice controlled robot through android
	19H71A04F8	ANANTHA VAMSI		
	20H75A0422	APPANA SAI TEJA		
	18H71A04G3	GUDIMETLA SIVA GANESH		
C16	20H75A0418	SYED NUSRAT JABEEN	Dr. B. PRAGATHI	IoT based indoor Hydroponics System
	19H71A04G7	SHAIK ZUBER AHMED		
	20H75A0428	VEMLA VEERA BABU		
	18H71A04H5	AVULA VAMSI KRISHNA		


Signature of Coordinator

Dr.K.Michael Angelo


Signature of HoD

(Dr.Ch.Pulla Rao)

VEHICLE TO VEHICLE COMMUNICATION USING Li-Fi TECHNOLOGY

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

by

J. Nikhila sri (19H71A0484)

T. Tanmai Priya (19H71A04A8)

Ch. S. R. Krishna (19H71A0499)

Ch. Sai Teja (19H71A0496)

Under the Esteemed Guidance of

**Dr. P. Rajani Kumari, M. Tech, Ph. D
Associate Professor**



Department of Electronics & Communication Engineering

**DVR & Dr. HS
MIC College of Technology
(Autonomous)
Kanchikacherla-- 521180, NTR Dist., Andhra Pradesh
April, 2023**



CERTIFICATE

This is to certify that the project report entitled **Vehicle to Vehicle Communication Using Li-Fi Technology** submitted by **J. Nikhila Sri (19H71A0484), T. Tanmai Priya (19H71A04A8), CH. S.R. Krishna (19H71A0499), CH. Sai Teja (19H71A0496)** to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

Rajani
(Dr. P. Rajani Kumari)

Supervisor



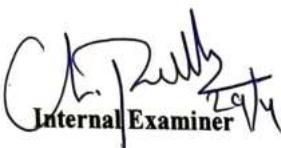
Ch. Pulla
(Dr. Ch. Pulla Rao)
Head of the Department


(Dr. T. Vamsee Kiran)

Principal

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External Examiner


Internal Examiner



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CERTIFICATE

This is to certify that the project report entitled "**LoRa Based Purification for Irrigation**" submitted by **T. Navya Sree(19H71A0426)**, **B. Gowtham Sai(19H71A0412)**, **A. Durga Prasad(19H71A0410)**, **K. Naveen(19H71A0424)** to the DVR & Dr. HS MIC College of Technology, Kanchikacherla in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide record of work carried out by THEM under our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

Supervisor *Lagini* 11/5/23



Ch. Relli
Head of the Department

Principal

PRINCIPAL

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Andhra Pradesh, India – Pin: 521180

C
Internal Examiner

D. S. Raji
External Examiner



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CERTIFICATE

This is to certify that the project report entitled "**LoRa Based Purification for Irrigation**" submitted by **T. Navya Sree(19H71A0426), B. Gowtham Sai(19H71A0412), A. Durga Prasad(19H71A0410), K. Naveen(19H71A0424)** to the DVR & Dr. HS MIC College of Technology, Kanchikacherla in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide record of work carried out by THEM under our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

Lajani
Supervisor 1/8/23



C. R. Palle
Head of the Department



Principal

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Andhra Pradesh, India – Pin: 521180

Q
Internal Examiner

A. S. L. Raju
External Examiner

“IOT-Ready Energy-Autonomous Parking Sensor Device”

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology
In
Electronics and Communication Engineering
By

K. Srujana (19H71A0449)

K. Mahith Sai (19H71A0420)

S. Gopi Krishna (20H75A0407)

D. Sai Uday Kiran (19H71A0440)

**Under the esteemed guidance of
Dr. P. RAJANI KUMARI, M.Tech, Ph.D
ASSOCIATE PROFESSOR**



Department of Electronics and Communication Engineering

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April, 2023



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CERTIFICATE

This is to certify that the project report entitled "**IOT-Ready Energy-Autonomous Parking Sensor Device**" submitted by **K. Srujana (19H71A0449)**, **K. Mahith Sai (19H71A0420)**, **S. Gopi Krishna (20H75A0407)**, **D. Sai Uday Kiran (19H71A0440)** to the DVR & Dr. HS MIC College of Technology, Kanchikacherla in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide record of work carried out by THEM under our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

Laymin
Supervisor 14



Ch. Palle
Head of the Department

[Signature]

Principal

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Andhra Pradesh, India – Pin: 521180

[Signature]
Internal Examiner

[Signature]
External Examiner

NAMED ENTITY RECOGNITION FOR MACHINE LEARNING APPLICATION

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

By

Y. Narmada(19H71A04D9)

T. Durga prasad(19H71A04C2)

B. Umesh Chand(20H75A0427)

M. Sanjay Kumar(19H71A04F3)

Under the Esteemed Guidance of

Dr. Ch. Pulla Rao, M.tech, Ph.D
Head of the Department



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Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled "**NAMED ENTITY RECOGNITION FOR MACHINE LEARNING APPLICATION**" submitted by **Ms. Y. Narmada (19H71A04D9)**, **Mr. T. Durga Prasad (19H71A04C2)**, **Mr. B. Umesh Chand (20H75A0427)**, **Mr. M. Sanjay Kumar (19H71A04F3)**, to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor




Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

LOW LIGHT IMAGE SIGNAL PROCESSING NET WITH TWO STAGE NETWORK

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

**Bachelor of Technology
In
Electronics & Communication Engineering**

By

S. Lahari (19H71A0476)

B.Prasanth Raju (19H71A0486)

B. Lakshmi Priyanka (20H75A0412)

CH. Vamsi (19H71A04B0)

**Under the Esteemed Guidance of
Dr. Ch. Pulla Rao, M. Tech, Ph. D
Head of Department**



Department of Electronics and Communication Engineering

**DVR & Dr. HS
MIC College of Technology
(Autonomous)**

Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023



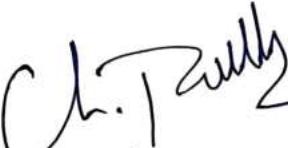
DVR & Dr. HS
MIC College of Technology

Kanchikacherla - 521180, NTR Dist., A.P, India.
Phone: 08678 - 273535, 273623, 9491457799, 7382616824
Website: www.mictech.ac.in



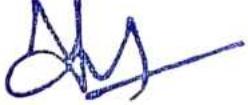
CERTIFICATE

This is to certify that the project report entitled "**Low Light Image Signal Processing Net With Two Stage Network**" submitted by **Ms. S. Lahari (19H71A0476)**, **Ms. B. Lakshmi Priyanka (20H75A0412)**, **Mr. B. Prasanth Raju (19H71A0486)**, **Mr. CH. Vamsi (19H71A04B0)** to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor
(Dr. Ch. Pulla Rao)

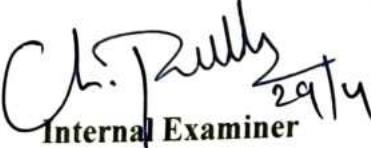



Head of the Department
(Dr. Ch. Pulla Rao)



Principal
(Dr. T. Vamsee Kiran)

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

IMAGE ENHANCEMENT AND IMAGE RESTORATION METHODS FOR UNDERWATER IMAGES

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology
In
Electronics & Communication Engineering

By

N. V. S. Pranathi (19H71A0453) **M. Sai Mahidar Tarun(19H71A0437)**
S. Poojitha Gayathri (19H71A0430) **T. Kalyan (20H75A0409)**

**Under the Esteemed Guidance of
Dr. Ch. Pulla Rao, M. Tech, Ph. D
Head of Department**



Department of Electronics and Communication Engineering

**DVR & Dr. HS
MIC College of Technology
(Autonomous)**

Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023



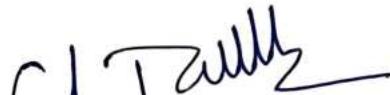
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Kanchikacherla - 521180, NTR Dist., A.P. India
Phone: 08678 - 273535, 273623, 9491457799, 7382616824
Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled "**Image Enhancement and Image Restoration Methods for Underwater Images**" submitted by **Ms. N. V. S. Pranathi (19H71A0453), Mr .M. Sai Mahidar Tarun(19H71A0437), Ms. S. Poojitha Gayathri (19H71A0430), Mr. T. Kalyan (20H75A0409)** to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor




Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

PELICAN OPTIMIZATION ALGORITHM BASED CLUSTERHEAD SELECTION FOR WSNs

A Project Report

*Submitted In partial fulfillment of the
Requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

In

Electronics and Communication Engineering

Bv

D. Swapna (19H71A4A5)

K. Anitha(19H71A0461)

V. Narasimhulu (19H71A0482)

Under the esteemed guidance of
Mr. M. NAGESWARARAO.,M.Tech(Ph.D)



Department of Electronics and Communication Engineering

DVR & Dr. HS

MIC College of Technology

(Autonomous)

Kanchikacherla-521180,NTRDist,AndhraPradesh

April, 2023



DVR & Dr. HS
MIC College of Technology

(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)
Kanchikacherla - 521180, Krishna Dist, A.P, India.

AUTONOMOUS

NBA-Accredited
B.Tech (CSE|ECE|ME)

Accredited by
NAAC With Grade A

CERTIFICATE

This is to certify that the project report entitled "**Pelican Optimization Algorithm Based Cluster Head Selection For WSNs**" submitted to the DVR & Dr. HS MIC College of Technology, Kanchikacherla in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology In **Electronics and Communication Engineering** is a bonafide record of work carried out by **D. Swapna (19H71A04A5)**, **K. Anitha (19H71A0461)**, **V. Narasimhulu (19H71A0482)**, under my guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

M. M. R.
Supervisor




Ch. Palle
Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

MULTILEVEL THRESHOLDING FOR IMAGE SEGMENTATION USING HYBRID OPTIMIZATION ALGORITHM

A Project report

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

Bachelor of Technology

In

Electronics & Communication Engineering

By

N. Sravani(19H71A0445)

J. Srikanth(19H71A0448)

T. Kumari(19H71A0417)

B. Bulli Raja(20H75A0403)

Under the esteemed guidance of

Mr. M. Nageswararao., M. Tech (Ph.D)



Department of Electronics and Communication Engineering

DVR & Dr. HS

MIC College of Technology

(Autonomous)

Kanchikacherla- 521180, NTR Dist, Andhra Pradesh

April, 2023



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MIC College of Technology

Kanchikacherla - 521180, NTR Dist., A.P. India.
Phone: 08678 - 273535, 273623, 9491457799, 7382616824
Website: www.mietech.ac.in



CERTIFICATE

This is to certify that the project report entitled **Multilevel Thresholding for Image Segmentation using Hybrid Optimization Algorithm** submitted by **Ms. N. Sravani (19H71A0445), Mr. J. Srikanth (19H71A0448), Ms. T. Kumari (19H71A0417), Mr. B. BulliRaja (20H75A0403)** to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in Electronics and Communication Engineering is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

m. m. r
Supervisor



C. Bulli
Head of the Department

[Signature]

Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

R
Internal Examiner

B. S. G.
External Examiner

IoT BASED INDOOR HYDROPONIC SYSTEM

*A Project Report Submitted In partial fulfillment of the requirements
for the award of the Degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

By

Syed Nusrat Jabeen (20H75A0418)

Shaik Zuber Ahmed (19H75A04G7)

A.Vamsi Krishna (18H71A04H5)

Under the esteemed guidance of

Dr. B. Pragathi, M.Tech, Ph.D

Associate Professor



Department of Electronics & Communication Engineering

**DVR & Dr. HS
MIC College of Technology**

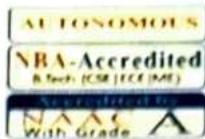
(Autonomous)

Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023



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MIC College of Technology
(Autonomous)
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)Kanchikacherla - 521180,
NTR Dist. A.P, India.



CERTIFICATE

This is to certify that the project report entitled **IoT BASED INDOOR HYDROPONIC SYSTEM** submitted by **Syed Nusrat Jabeen(20H75A0418)**, **Shaik Zuber Ahmed(19H75A04G7)**, **A.Vamsi Krishna(18H71A04H5)** to the DVR&Dr.HS MIC College of Technology, Kanchikacherla in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and communication Engineering** is a bonafide record of work carried out by THEM under our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor




Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner
External Examiner

IoT-Based Water Management Systems

*A Project Report
submitted in partial fulfillments of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

by

CH.Aditya Sai Akhil (19H71A0460) S.Gayatri(19H71A0467)

K.Naveen Kumar(20H75A0417) A.BhavanaRani(19H71A0464)

*Under the Esteemed guidance of
Dr.B.Pragathi,M.Tech,Ph.D
Associate Professor*



Department of Electronics & Communication Engineering

DVR & Dr.HS

MIC College of Technology

(Autonomous)

Kanchikacherla-521180,NTR Dist,Andhra Pradesh

April,2023



CERTIFICATE

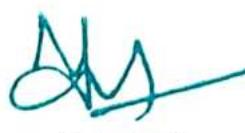
This is to certify that the project report entitled "**IoT Based Water Management System**" submitted by **CH.Aditya Sai Akhil (19H71A0460), S.Gayatri (19H71A0467), K.Naveen Kumar (20H75A0417), A.Bhavana Rani (19H71A0464)**to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

Supervisor

(Dr.B.Pragathi)



Head of the Department
(Dr.CH.PULLA RAO)



Principal

(Dr.T.Vamsee Kiran)

Internal Examiner

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

External Examiner

A SMART AUTONOMOUS FLOOR CLEANING ROBOT WITH AN ANDRIOD BASED CONTROLLER

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

**In
Electronics & Communication Engineering**

By

A. Bhargavi (19H71A0405)

K. Bhargavi(19H71A0406)

N. Bhanu Prakash (19H71A0404)

K. Krishna Kanth (19H71A0415)

**Under the Esteemed Guidance of
Dr. B. Pragathi, M. Tech, Ph. D
Associate Professor**



Department of Electronics and Communication Engineering

**DVR & Dr. HS
MIC College of Technology
(Autonomous)**

Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023



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MIC College of Technology

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Phone: 08678 - 273535, 273623, 091157709, 7382616821
Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled "**A Smart Autonomous Floor Cleaning Robot With An Android Based Controller**" submitted by **Ms. A. Bhargavi(19H71A0405), Ms .K. Bhargavi(19H71A0406), Mr . N. Bhanu Prakash (19H71A0404), Mr. K. Krishna Kanth (19H71A0415)** to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor




Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

IoT BASED SURVEILLANCE AND MONITORING SYSTEM FOR CHILD STUCK INSIDE THE CAR

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

**Bachelor of Technology
In
Electronics & Communication Engineering**

By

**E.Venkata Sagar (19H71A0451)
P.Bhavya Sri (19H71A0407)
N.Yagneswara Reddy (19H71A0457)**

**Under the Esteemed Guidance of
T.Narendra kumar M.Tech, M.I.S.T.E.,
Assistant professor**



Department of Electronics and Communication Engineering

**DVR & Dr. HS
MIC College of Technology
(Autonomous)**

Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023



CERTIFICATE

This is to certify that the project report entitled "**IoT Based Surveillance and Monitoring System for Child Stuck Inside the Car**" submitted by **E.Venkata sagar (19H71A0451), P.Bhavya Sri (19H71A0407), N. Yagneswara Reddy (19H71A0457)** to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

J.Narendra Kumar
Supervisor



Ch. P. Rama
Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

R
Internal Examiner

B. Selvaraj
External Examiner

"An IoT Based Coal Mine Safety and Monitoring System Using LoRaWAN"

"AN IoT BASED COAL MINE SAFETY AND MONITORING SYSTEM USING LORAWAN"

*Project Report Submitted In partial fulfillment of the requirements
for the award of the Degree of*

BACHELOR OF TECHNOLOGY

In

ELECTRONICS AND COMMUNICATIONS ENGINEERING

By

P.Yesaswini (19II71A04G5)
M.Hani Priya (19II71A04C4)
N.Sarath Chand (20II75A0423)

Under the esteemed guidance of
Mr.T.Narendra Kumar, M.Tech.M.I.S.T.E.,
Assistant Professor



Department of Electronics And Communication Engineering

DVR&Dr.HS

**MIC College of Technology
(Autonomous)**

**Kanchikacherla– 521180, NTR Dist, Andhra Pradesh
April,2023**



CERTIFICATE

This is to certify that the project report entitled **An IoT Based Coal Mine Safety And Monitoring System Using LORAWAN** submitted by Ms.P.Yesaswini(19H71A04G5), Ms.M.Hani priya(19H71A04C4), Mr.N.Sarath chand(20H75A0423) to the DVR&Dr.HS MIC College of Technology, Kanchikacherla in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communications Engineering** is a bonafide record of work carried out by THEM under our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

T. Narendra Kumar

(Mr.T. Narendra kumar)

Supervisor

(Dr.T Vamsee Kiran)

Internal Examiner

Ch. Pulla Rao

(Dr.CH. Pullaraao)

Head of the Department

External Examiner

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180



A Real-time School Bus Tracking and Monitoring System

*A Project Report
submitted in partial fulfillments of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

by

V. Varsha Sri (19H71A04B4) D. Srikanth Reddy(19H71A04A3)
B. Praveen Reddy(19H71A0487) B. Raja(19H71A0489)

*Under the Esteemed guidance of
Mr. M. Anil Kumar, M.Tech, (Ph.D)
Assistant Professor*



Department of Electronics & Communication Engineering

DVR & Dr.HS

**MIC College of Technology
(Autonomous)**
Kanchikacherla-521180,NTR Dist,Andhra Pradesh

April,2023



CERTIFICATE

This is to certify that the project report entitled "**A Real-time School bus Tracking and Monitoring System**" submitted by **V.Varsha Sri (19H71A04B4), D. Srikanth Reddy (19H71A04A3), B. Praveen Kumar (19H71A0487), B. Raja (19H71A0489)** to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

T. Supervisor
(Mr.M. Anil Kumar)

28/4/2023



Head of the Department
(Dr.CH.PULLA RAO)

Principal

(Dr.T.Vamsee Kiran)

Internal Examiner 29/4
PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180
 External Examiner

AUTOMATIC PILL REMINDER AND DISPENSER

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

By

R. Sai Tanuja (19H71A0439)

J. Adi Surya (20H75A0401)

P. Durga Rao (20H75A0405)

Sk. Saidha Gopi (19H71A0441)

**Under the Esteemed Guidance of
Mr. M. Anil Kumar, M. Tech(Ph. D)
Assistant Professor**



Department of Electronics and Communication Engineering

DVR & Dr. HS

MIC College of Technology

(Autonomous)

Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023



DVR & Dr. HS
MIC College of Technology

Kanchikacherla - 521180 N.T.R.Dist. A.P. India
Phone: 08678 - 273313, 271621, 0101457700, 7182616821
Website: www.mictech.ac.in



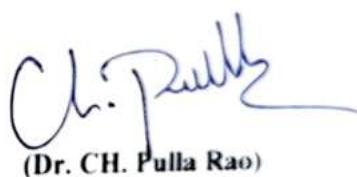
CERTIFICATE

This is to certify that the project report entitled "**Automatic Pill reminder and Dispenser**" submitted by **Ms. R. Sai Tanuja(19H71A0439), Mr.J.Adi Surya (20H75A0401), Mr. P. Durga Rao (20H75A0405), Mr. Sk. Saidha Gopi (19H71A0441)** to the DVR & Dr HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

 01/05/23
(Mr. M. Anil Kumar)

Project Supervisor




(Dr. CH. Pulla Rao)

Head of the Department


(Dr. T. Vamsee Kiran)

Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

**SPEAKING SYSTEM FOR MUTE PEOPLE USING
HAND GESTURE**

A Project Report

*Submitted In partial fulfillment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

In

Electronics and Communication Engineering

By

G. Likitha (19H71A0419)

M.S.L.Sai Nohitha (19H71A0447)

N.Naveen (19H71A0425)

M.PrabhuKoti Varma (19H71A0431)

**Under the esteemed guidance of
Mrs. G. ANANTHA LAKSHMI(M.Tech)
Assistant Professor**



Department of Electronic and Communicaton Engineering

**DVR & Dr.HS
MIC College of Technology
(Autonomous)**

Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023



CERTIFICATE

This is to certify that the project report entitled "**Speaking System For Mute People Using Hand Gesture**" submitted by **G.Likitha (19H71A0419)**, **M.S.L.Sai Nohitha (19H71A0447)**, **N.Naveen (19H71A0425)**, **M.PrabhuKoti Varma (19H71A0431)** to the DVR & Dr.HS MIC College of Technology, Kanchikacherla in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology In **Electronics and Communication Engineering** is a bonafide record of work carried out by them under our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor




Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

SMART CAP : AN IoT BASED ASSISTANT FOR VISUALLY IMPAIRED PEOPLE

*A Project Report
submitted in partial fulfillments of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

by

Teja Somanath Sahu (19H71A04A0) V.Lavanya (20H75A0413)
K.Vamsi (19H71A04B1) V.Deepak (19H71A0465)

*Under the Esteemed guidance of
Mrs. G. Anantha Lakshmi, M.Tech,
Assistant Professor*



Department of Electronics & Communication Engineering

DVR & Dr.HS

MIC College of Technology

(Autonomous)

Kanchikacherla-521180,NTR Dist,Andhra Pradesh

April,2023



DVR & Dr. HS
MIC College of Technology

Kanchikacherla - 521180, NTR Dist., A.P. India.
Phone: 08678 - 273535, 273623, 9491457799, 7382616824
Website: www.mietech.ac.in



CERTIFICATE

This is to certify that the project entitled "**SMART CAP: An IoT BASED ASSISTANT FOR VISUALLY IMPAIRED PEOPLE**" submitted by **Mr. Teja Somanath Sahu (19H71A04A0), Ms.V.Lavanya(20H75A0413), Mr.K.Vamsi (19H71A04B1), Mr.V.Deepak (19H71A0465)** to the DVR & Dr. HS MICCollege of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bona fide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

Supervisor

(Mrs. G.Anantha Lakshmi)



Head of the Department
(Dr. Ch. Pulla Rao)

Principal

(Dr. T. Vamsee Kiran)

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180

Internal Examiner

External Examiner

IOT BASED CROP PROTECTION SYSTEM FROM ANIMALS

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

BACHELOR OF TECHNOLOGY

In

ELECTRONICS & COMMUNICATION ENGINEERING

Submitted by

K. Avinash Sekhar (19H71A04B9)

CH. Kalyan Kumar(19H71A04C8)

M.Yashwanth (19H71A04G4)

A. Kavya (20H75A0410)

Under the esteemed guidance of

Mr. M. SAI GANESH, M.Tech

ASSISTANT PROFESSOR



Department of Electronics & Communication Engineering

DVR & Dr. HS

**MIC College of Technology
(Autonomous)**

Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023



CERTIFICATE

This is to certify that the project entitled "**IOT BASED CROP PROTECTION SYSTEM FROM ANIMALS**" submitted by K.Avinash Sekhar(19H71A04B9), CH.Kalyan Kumar(19H71A04C8), M. Yashwanth(19H71A04G4), A. Kavya(20H75A0410) to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide record of work carried out by them under our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Project Supervisor



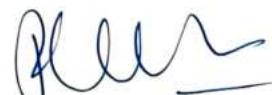

Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Examiner 1


Examiner 2

UNDERGROUND MINE AIR QUALITY POLLUTION MONITORING SYSTEM BASED ON IOT TECHNOLOGY

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

by

**K. Hena Sannuthi (19H71A0470)
B. Harish (19H71A0468)**

**M. Syam Pavan(19H71A04A7)
K. Vanaja Lakshmi(19H71A04B2)**

*Under the Esteemed Guidance of
Mr. M. Sai Ganesh, M. Tech,
Assistant Professor*



Department of Electronics & Communication Engineering

DVR & Dr. HS

**MIC College of Technology
(Autonomous)**

Kanchikacherla-- 521180, NTR Dist., Andhra Pradesh

April 2023



CERTIFICATE

This is to certify that the project report entitled **UNDERGROUND MINE AIR QUALITY POLLUTION MONITORING SYSTEM BASED ON IOT TECHNOLOGY** submitted by **K.Hena Sannuthi(19H71A0470)**, **M. SyamPavan (19H71A04A7)**, **B. Harish(19H71A0468)**, **K. Vanaja Lakshmi(19H71A04B2)** to the DVR&Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

Supervisor



Head of the Department



Principal

PRINCIPAL

DVR & Dr. HS MIC College of Technology
 Kanchikacherla, N.T.R. Dt.
 Andhra Pradesh, India – Pin: 521180

Internal Examiner

External Examiner

DESIGN & DEVELOPMENT OF HUMAN FOLLOWING ROBOT

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

**In
Electronics & Communication Engineering**

By

M. Sai Ramya Sri (19H71A0438)

P. Supraja(19H71A0450)

D. Harika Bhavani (19H71A0413)

M. Reshma(19H71A0436)

**Under the Esteemed Guidance of
Dr. K. Michael Angelo, M. Tech, Ph. D
Associate Professor**



Department of Electronics and Communication Engineering

**DVR & Dr. HS
MIC College of Technology
(Autonomous)**

**Kanchikacherla– 521180, NTR Dist., Andhra
Pradesh**

April, 2023



DVR & Dr. HS
MIC College of Technology

Kanchikacherla - 521180, NTR Dist., A.P. India
Phone: 08678 - 273535, 273623, 0491457799, 7382616824
Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled "**Design and Development of Human-Following Robot**" submitted by **Ms. M. Sai Ramya Sri (19H71A0438), Ms. P. Supraja (19H71A0450), Ms. D. Harika Bhavani(19H71A0413), Ms. M. Reshma(19H71A0436)** to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor




Head of the Department



Principal

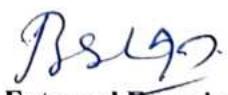
PRINCIPAL

DVR & Dr. HS MIC College of Technology

Kanchikacherla, N.T.R. Dt.

Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

“ARDUINO BASED ULTRASONIC MAP MAKER”

A project report

*Submitted in partial fulfilment of the
Requirements for the award of the degree of*

Bachelor of Technology

In

Electronic & Communication Engineering

By

M. Jyothi Srivalli (19H71A04C7)

A. Naveensai (19H71A04E0)

M. Soniya (20H75A0424)

B. Sai Sandeep (19H71A04E9)

Under the Esteemed Guidance of

Mrs. G. Anantha Lakshmi, M.Tech.,

Assistant Professor



Department of Electronics & Communication Engineering

DVR & Dr. HS

MIC College of Technology

(Autonomous)

Kanchikacherla–521180, NTR Dist, Andhra Pradesh

April, 2023



CERTIFICATE

This is to certify that the project report entitled "**ARDUINO BASED ULTRASONIC MAP MAKER**" submitted by **M. Jyothi Srivalli (19H71A04C7)**, **A. Naveensai (19H71A04E0)**, **M. Soniya (20H75A0424)**, **B. Sai Sandeep (19H71A04E9)** to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in Electronic & Communication Engineering is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

(G. Anantha Lakshmi)

Supervisor



(Dr. CH. Pulla Rao)

Head of the Department



(Dr. T. Vamsee Kiran)

Principal

PRINCIPAL

DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

Internal Examiner

External Examiner

“Prevalence and Early Prediction of Diabetes Using Machine Learning”

A Project Report

*Submitted In partial fulfillment
of the requirements for the award of the Degree of*

Bachelor of Technology

In

Electronics and Communication Engineering

By

V. Sai Krishna
(19H71A04E8)

K. Venu
(19H71A04G3)

M. Tirumala Rao
(19H71A04F7)

P. Harshitha
(19H71A04D8)

Under the esteemed guidance of
Mr. M. Anil Kumar, M.Tech(p.h.d)
ASSISTANT PROFESSOR



Department of Electronics and Communication Engineering

DVR & Dr. HS
MIC College of Technology
(Autonomous)
Kanchikacherla– 521180, NTR Dist., Andhra Pradesh
April, 2023

CERTIFICATE

This is to certify that the project report entitled "**Prevalence and Early Prediction of Diabetes Using Machine Learning**" submitted by V.SaiKrishna(19H71A04E8), K.Venu(19H71A04G3), M.TirumalaRao(19H71A04F7), P.Harshitha(19H71A04D8) to the DVR & Dr .HS MIC College of Technology, Kanchikacherla in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronic and Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

M. Anil Kumar

28/4/2023

Supervisor



Ch. Pulla Rao
(CH. Pulla Rao)

Head of the Department

A handwritten signature in black ink.

Principal
(Dr.T.Vamsee Kiran)

A handwritten signature in black ink.

Internal Examiner

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

A handwritten signature in blue ink.

External Examiner

Smart Wi-Fi Based Door Bell Circuit Development for Homes

*A Project Report Submitted In partial fulfillment of the requirements
for the award of the Degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

By

M. Akhila	(19H71A04B6)
A. Sai Tejeswara Reddy	(19H71A04F1)
S. Kumar Vardhan	(19H71A0416)

Under the esteemed guidance of

Dr. K. Michael Angelo, M. Tech, PhD

Associate Professor



Department of Electronics & Communication Engineering

DVR & Dr. HS

MIC College of Technology

(Autonomous)

Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

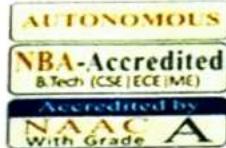
April, 2023



DVR & Dr.HS

MIC College of Technology
(Autonomous)

(Approved by AICTE & Permanently Affiliated
to JNTUK, Kakinada)Kanchikacherla - 521180,
NTR Dist, A.P, India.



CERTIFICATE

This is to certify that the project report entitled "**Smart Wi-Fi Based Door Bell Circuit Development for Homes**" submitted by **Ms. M. Akhila (19H71A04B6), Mr. A. Sai Tejeswara Reddy (19H71A04F1), Mr. S. Kumar Vardhan (19H71A0416)** to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

Supervisor



Ch. Palle

Head of the Department

Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

Internal Examiner 29/4

External Examiner

**“DEVELOPMENT OF A SMART ELECTRICITY METRE FOR HOUSE
HOLDS BASED ON EXISTING INFRASTRUCTURE”**

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

**In
Electronics & Communication Engineering
By**

A.Sowjanya(19H71A04A1)

V.Vani(19H71A04B3)

L.UdayBhaskar(20H75A0426)

**Under the Esteemed Guidance of
Dr. K. Michael Angelo, M.Tech, PhD
Associate Professor**



Department of Electronics and Communication Engineering

**DVR & Dr. HS
MIC College of Technology
(Autonomous)**

Kanchikacherla– 521180, NTR Dist., Andhra Pradesh

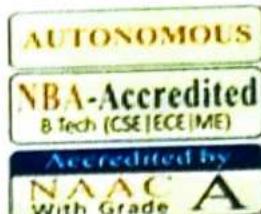
April, 2023



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**MIC College of Technology
(Autonomous)**

(Approved by AICTE & Permanently Affiliated
to JNTUK, Kakinada)Kanchikacherla - 521180,
NTR Dist, A.P, India.



CERTIFICATE

This is to certify that the project report entitled "**Developement of A Smart Electricity Meter For House Holding Based on Existing Infrastructure**" submitted by **A.Sowjanya (19H71A04A1), V.Vani (19H71A04B3), L.Uday Bhaskar (20H75A0426)** DVR & Dr.HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.



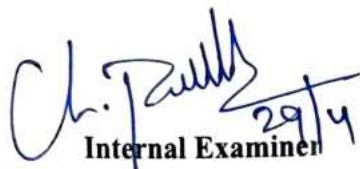

Head of the Department


Supervisor



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

IOT BASED BABY MONITORING SYSTEM

A Project Report

*Submitted In partial fulfillment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

In

Electronics & Communication Engineering

Submitted by

M.Ramya(20H75A0420)

A.Nishanth(19H71A04E1)

M.Rohan(19H71A04E5)

M.Mahesh(19H71A04D4)

Under the Esteemed guidance of

Ms. S. NAGALAKSHMI, M.Tech

Assistant Professor



Department of Electronics and Communication Engineering

DVR & Dr.HS

**MIC College of Technology
(Autonomous)**

Kanchikacherla– 521180, NTR Dist, Andhra Pradesh
April, 2023



CERTIFICATE

This is to certify that the project report entitled "**IOT BASED BABY MONITORING SYSTEM**" Submitted by M.Ramya (20H75A0420), A.Nishanth (19H71A04E1), M.Rohan (19H71A04E5), M.Mahesh (19H71A04D4) to the DVR & Dr.HS MIC College of Technology, in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in Electronics and Communication Engineering is a bonafide record of work carried out by them under our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

S. Abgalalakshmi
Supervisor
(Ms.S.Naga Lakshmi)



CH. Pulla Rao
Head of the department
(Dr.CH.Pulla Rao)

Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

Internal Examiner

External Examiner

EMERGENCY MANAGEMENT AND ACCIDENT REPORTING SYSTEM USING IoT

*A Project Report
submitted in partial fulfillments of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

by

CH.Himasree (19H71A0471)

Sk.Arshiya(19H71A0462)

B.Meghana(20H75A0416)

Md.Mustaffakhan(19H71A0480)

*Under the Esteemed guidance of
Ms. S. Nagalakshmi, M.Tech,
Assistant Professor*



Department of Electronics & Communication Engineering

DVR & Dr.HS

MIC College of Technology

(Autonomous)

Kanchikacherla-521180,NTR Dist,Andhra Pradesh

April,2023



CERTIFICATE

This is to certify that the project entitled "**Emergency Management and Accident Reporting system using IoT**" submitted by **CH. Himasree(19H71A0471)**, **Sk. Arshiya(19H71A0462)**, **B. Meghana(20H75A0416)**, **Md. Mustaffa Khan(19H71A0480)** to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

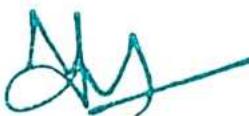
S. Naga Lakshmi
Supervisor

(Ms. S. Naga Lakshmi)



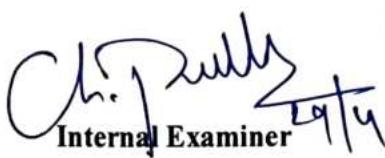

Head of the Department

(Dr. CH. Pulla Rao)



Principal

(Dr. T. Vamsee Kiran)


Internal Examiner

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


External Examiner

"EARLY DETECTION AND PREVENTION OF CERVICAL CANCER"

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

By

R. Vanaja (19H71A04F9)

S. Pravallika (20H75A0419)

M. Venkateswarlu (19H71A04G2)

G. Yuvakiran (19H71A04G6)

*Under the Esteemed Guidance of
Mr. D. Rakesh, M.Tech
Assistant Professor*



Department of Electronics and Communication Engineering

DVR & Dr. HS

MIC College of Technology

(Autonomous)

Kanchikacherla– 521180, NTR Dist., Andhra Pradesh

April, 2023



CERTIFICATE

This is to certify that the project report entitled "**EARLY DETECTION AND PREVENTION OF CARVICAL CANCER**" submitted by **R. Vanaja (19H71A04F9), S. Pravallika (20H75A0419), M. Venkateswarlu (19H71A04G2), G. Yuvakiran (19H71A04G6)** to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

D. Rabesh
Supervisor



Ch. Ratty
Head of the Department

[Signature]

Principal

PRINCIPAL

DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

[Signature]
Internal Examiner

[Signature]
External Examiner

AN AQUACULTURE MONITORING SYSTEM USING IoT

*A Project Report
submitted in partial fulfillments of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

by

T.Hemasri (19H71A0469)

K.Likitha(20H75A0414)

K.Dhanvantar(19H71A0466)

K.Ramsai Kumar (19H71A0490)

Under the Esteemed guidance of

**Mr. D. Rakesh, M.Tech,
Assistant Professor**



Department of Electronics & Communication Engineering

DVR & Dr.HS

MIC College of Technology

(Autonomous)

Kanchikacherla-521180,NTR Dist,Andhra Pradesh

April,2023



DVR & Dr. HS
MIC College of Technology

Kanchikacherla - 521180, NTR Dist., A.P. India
Phone: 08678 - 273535, 273623, 9491457700, 7382616821
Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project entitled "**AN AQUACULTURE MONITORING SYSTEM USING IoT**" submitted by **Ms.T. Hemasri (19H71A0469), Ms.K.Likitha(20H75A0414), Mr.K.Dhanvantar (19H71A0466), Mr.K.Ramsai Kumar (19H71A0490)** to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor
(Mr.D.Rakesh)



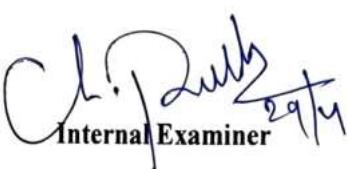

Head of the Department
(Dr. Ch. Pulla Rao)



Principal

(Dr. T. Vamsee Kiran)

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

**VISIBILITY DETECTION BASED ON THE
RECOGNITION OF THE PRECEDING VEHICLES
UNDER FOGGY WEATHER**

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

By

D.V. Sushma(19H71A0454)

Sk. Davood Ibrahim(19H71A0409)

Sk. Shabul(19H71A0444)

B. Jaswanth(19H71A0414)

**Under the Esteemed Guidance of
Mr. Ch. Lakshmana, M. Tech
Assistant Professor**



Department of Electronics and Communication Engineering

**DVR & Dr. HS
MIC College of Technology
(Autonomous)
Kanchikacherla– 521180, NTR Dist., Andhra Pradesh**

April, 2023



DVR & Dr. HS
MIC College of Technology

Kanchikacherla - 521180, NTR Dist., A.P. India
Phone: 08678 - 273535, 273623, 9101457799, 7382616824
Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled "**Visibility Detection Based on the Recognition of the Preceding Vehicles Under Foggy Weather**" submitted by **Ms. D. V. Sushma (19H71A0454)**, **Mr. Sk. Davood Ibrahim (19H71A0409)**, **Ms. Sk. Shabul (19H71A0444)**, **Mr. B. Jaswanth (19H71A0414)** to the DVR &Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor




Head of the Department



Principal

PRINCIPAL

DVR & Dr. HS MIC College of Technology

Kanchikacherla, N.T.R. Dt.

Andhra Pradesh, India – Pin: 521180



External Examiner


Internal Examiner

“IoT BASED PREGNANT WOMEN HEALTH MONITORING SYSTEM FOR PRENATAL CARE”

*Project Report Submitted In partial fulfillment of the requirements
for the award of the Degree of*

**BACHELOR OF TECHNOLOGY
IN
ELECTRONICS & COMMUNICATION ENGINEERING**

by

**Shaik. Ruksana
(19H71A04E6)**

**Shaik. Sameera Suhel
(19H71A04F2)**

**K. L. A. S. Sathwika
(19H71A04D1)**

**D. Melonica
(19H71A04D6)**

Under the Esteemed Guidance of

Mr.Ch. Lakshmana, M.Tech,

Assistant Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**DVR & Dr. HS
MIC College of Technology
Autonomous**

Kanchikacherla - 521180, NTR Dist, Andhra Pradesh India.

April, 2023

DVR & Dr. HS

MIC College of Technology

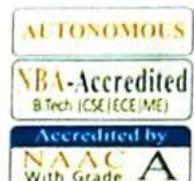
Autonomous



(Approved by AICTE & Permanently Affiliated to JNTUK,
Kakinada)Kanchikacherla - 521180, NTR Dist., A.P, India.

Phone: 08678 - 273535, 273623, Fax: 08678 - 273569
E mail: dvrhsmic@mictech.ac.in, Website: www.mictech.ac.in

2022-2023



Certificate

This is to certify that the internship entitled "**IoT Based Pregnant Women Health Care Monitoring System For Prenatal Care**" submitted by **Ms. Shaik. Ruksana (19H71A04E6)**, **Ms. Shaik. Sameera Suhel (19H71A04F2)**, **Ms. K. L. A. S. Sathwika (19H71A04D1)** and **Ms. D. Melonica (19H75A04D6)** to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

(Mr. CH. Lakshmana)

Supervisor



(Dr. CH. Pulharao)

Head of the Department



(Dr. T. Vamsee Kiran)

Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

Internal Examiner

External Examiner

“SMART ROOM- A GESTURE CONTROLLED TECHNOLOGY”

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

**Bachelor of Technology
In
Electronics & Communication Engineering**

By

J. Kavya Sri (19H71A0475)

T. Mahesh (20H75A0415)

M. Sridhar (19H71A04A2)

CH. Sadhana(19H71A0494)

**Under the Esteemed Guidance of
Mr. B. Radha Krishna Singh, M.Tech, MIE
Associate Professor**



Department of Electronics & Communication Engineering

DVR & Dr. HS

MIC College of Technology

(Autonomous)

**Kanchikacherla– 521180, NTR Dist., Andhra Pradesh
April,2023**

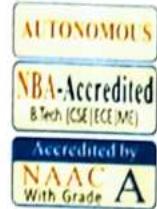


Devineni Venkata Ramana & Dr. Hima Sekhar

MIC College of Technology

(Approved by AICTE & Permanently
Affiliated to JNTUK, Kakinada)

Kanchikacherla - 521180, NTR Dist., A.P, India
Phone: 08678 - 273535, 273623, Fax: 08678 - 273569
E mail: dvrhsmic@mictech.ac.in, Website: www.mictech.ac.in



2022-2023

CERTIFICATE

This is to certify that the project report entitled "**SMART ROOM - A GESTURE CONTROLLED TECHNOLOGY**" submitted by **J. Kavya Sri (19H71A0475), T. Mahesh (20H75A0415), M .Sridhar (19H71A04A2) , CH. Sadhana (19H71A0494)** to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide record of work. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

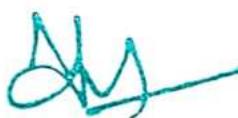
(Mr. B. Radha Krishna Singh)

Project Supervisor



Ch. Pulla Rao
(Dr. CH. Pulla Rao)

Head of the Department



Principal

CH. Pulla Rao
29/4/23
Internal Examiner

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180
External Examiner

ARDUINO BASED SMART COLLEGE BUS AND STUDENT IDENTIFICATION USING RFID

*A Project Report
submitted in partial fulfillment of the
Requirements for the award of the degree of*

Bachelor of Technology
In
Electronics & Communication Engineering
By

T.Asritha (19H71A0403) **S.L.Madhuri (19H71A0418)**
S.Abdul Jameer (19H71A0401) **N.Giribabu (20H75A0406)**

Under the esteemed guidance of
Mr.B.Radha Krishna Singh, M.Tech, MIE
ASSOCIATE PROFESSOR



Department of Electronics & Communication Engineering

DVR & Dr. HS
MIC College of Technology
(Autonomous)

Kanchikacherla–521180, NTR Dist., Andhra Pradesh

April, 2023



DVR & Dr. HS

MIC College of Technology

Kanchikacherla - 521180, NTR Dist., A.P. India.
Phone: 08678 - 273535, 273623, 9491457799, 7382616824
Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled **ARDUINO BASED SMART COLLEGE BUS AND STUDENT IDENTIFICATION USING RFID** submitted by **T.Asritha (19H71A0403), S.L.Madhuri(19H71A0418), S.Abdul Jameer (19H71A0401), N.Giribabu (20H75A0406)** to the DVR & Dr. HS MIC College of Technology, Kanchikacherla in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide record of work carried out by THEM under our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor




Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

**"AN IOT ENABLED VOICE CONTROLLED
ROBOT THROUGH ANDROID"**

*A Project Report
Submitted in partial fulfillment of the
Requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

By

P.Suraj Kumar (19H71A04F5)

A. Sai Teja (20H75A0422)

A. Vamsi (19H71A04F8)

G. Siva Ganesh (18H71A04G3)

Under the Esteemed Guidance of

Mr. B. Radha Krishna Singh, M.Tech,MIE.,

Associate Professor



Department of Electronics and Communication Engineering

DVR & Dr. HS

**MIC College of Technology
(Autonomous)**

Kanchikacherla–521180, NTR Dist., Andhra Pradesh

April, 2023



DVR & Dr. HS
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Kanchikacherla - 521180, NTR Dist., A.P. India.
Phone: 08678 - 273535, 273623, 0491457799, 7382616824
Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled "**An IoT enabled Voice Controlled Robot through Android**" submitted by **Mr. P. Suraj Kumar (19H71A04F5)**, **Mr. A.Vamsi(19H71A04F8)**, **Mr. A.SaiTeja (20H75A0422)**, **Mr. G. Siva Ganesh (18H74A04G3)** to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor



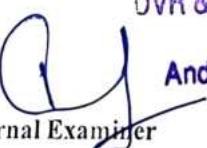

Head of the Department



Principal

PRINCIPAL

DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

FACE RECOGNITION BASED ATTENDANCE MANAGEMENT SYSTEM USING RASPBERRY PI

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology
In
Electronics & Communication Engineering

By

P. Durgaprasad (19H71A0411) **B. Nagendra Babu (19H71A0423)**
K. Hemanth Kumar (20H75A0408) **G. Raju (19H71A0435)**

Under the Esteemed Guidance of
Mrs. T. Sridevi, M. Tech
Assistant Professor



Department of Electronics and Communication Engineering

DVR & Dr. HS
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Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023



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Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled "**Face Recognition Based Attendance Management System Using Raspberry Pi**" submitted by **Mr. P. Durgaprasad (19H71A0411), Mr. B. Nagendra Babu (19H71A0423), Mr. K. Hemanth Kumar (20H75A0408), Mr. G. Raju (19H71A0435)** to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor




Head of the Department



Principal


Internal Examiner

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


External Examiner

"WOMEN SAFETY DEVICE USING NODEMCU"

*A major project report submitted to
Jawaharlal Nehru Technological
University Kakinada in partial fulfillment for
the award of the degree of*

BACHELOR OF TECHNOLOGY in ELECTRONICS & COMMUNICATION ENGINEERING

Submitted by

M.Tejaswini(19H71A04A9)

P. Bhagavan Narayana (19H71A0463)

Y.Prudhvi (19H71A0488)

V.Likhitha (19H71A0477)

**Under the Esteemed Guidance of
Mrs. T.Sridevi, M. Tech.
ASSISTANT PROFESSOR**



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**DVR & Dr. HS
MIC College of Technology**

Autonomous

An ISO 9001:2015 Certified Institute

(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)

Kanchikacherla - 521180, NTR Dist., A.P, India.

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E mail: officemictech@gmail.com, Website: www.mictech.edu.in

(2022-2023)

DVR & Dr. HS

MIC College of Technology

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Approved by AICTE & Permanently Affiliated to JNTU R. Kakinada
Kanchikacherla - 521180, NTR Dist. A.P. India

Phone: 08678-273515, 273623 Fax: 08678-273160

Email: dvrhemic@mictech.ac.in Website: www.mictech.ac.in

EFY Approved

NBA Accredited
AICTE Approved

Accredited by
NAAC with Grade "A"

(2022-2023)

CERTIFICATE

This is to certify that the project report entitled "**Women Safety Device Using NodeMCU**" submitted by **Tejaswini(19H71A04A9), P.Bhagavan Narayana(19H71A0463), V.Prudhvi(19H71A0488), V.Likhitha(19H71A0477)** to the DVR&Dr.HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of **Technology in Electronics and Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other institute for the award of any Degree.


Project Supervisor



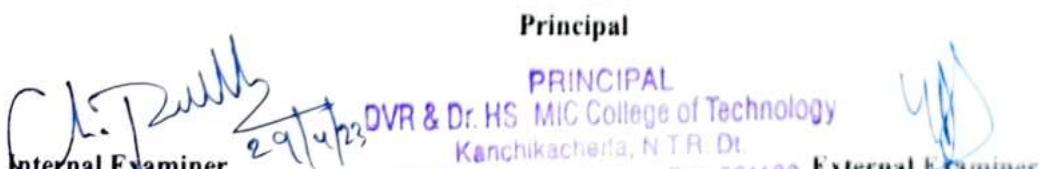

Head of the Department



Principal

PRINCIPAL

DVR & Dr. HS. MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180


Internal Examiner 29/10/23 External Examiner

DESIGN AND IMPLEMENTATION OF AUTONOMOUS LAWN MOWER ROBOTIC CONTROLLER

A Project Report Submitted In partial fulfillment of the requirements

for the award of the Degree of

Bachelor of Technology

In

Electronics & Communication Engineering

By

N.Giridhar (19H71A04C3)

M.Ramakrishna(19H71A04E3)

K.Dharani(19H71A04C1)

G.N.S.S.M.Ranga Nandhitha(19H71A04D7)

Under the esteemed guidance of

Mr. S. Ramakoteswara Rao, M. Tech, (PhD)

Assistant Professor



Department of Electronics & Communication Engineering

DVR & Dr. HS

MIC College of Technology

(Autonomous)

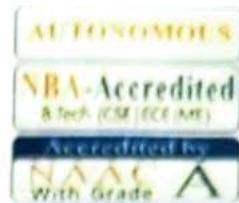
Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023



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MIC College of Technology
(Autonomous)

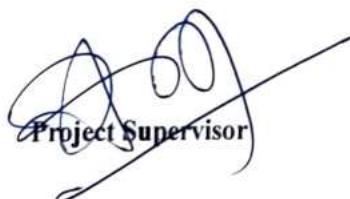
(Approved by AICTE & Permanently Affiliated
to JNTUK, Kakinada)Kanchikacherla - 521180,
NTR Dist. A.P. India.



CERTIFICATE

This is to certify that the project entitled "**DESIGN AND IMPLEMENTATION OF AUTONOMOUS LAWN MOWER ROBOTIC CONTROLLER**" submitted by **N.Giridhar (19H71A04C3), M.Ramakrishna (19H71A04E3), K.Dharani (19H71A04C1)**,

G.N.S.S.M. Ranga Nandhitha(19H71A04D7) to the DVR & Dr.HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in Electronics and Communication Engineering is a bonafide record of work carried out by them under our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Project Supervisor




Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Examiner 1


Examiner 2

Face Spoof Detection Using Color Texture Analysis Based On CNN

A Project Report

*submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

by

**K.Ramya (19H71A0492)
V.Himatrisha (19H71A0472)
V.SaiHarshitha (19H71A0495)**

Under the Esteemed Guidance of

**Mr.S.RAMAKOTESWARARAO, M.Tech, (Ph.D)
Assistant Professor**



Department of Electronics & Communication Engineering

**DVR & Dr .HS
MIC COLLEGE OF TECHNOLOGY
(Autonomous)**

Kanchikacharela-- 521180, NTR Dist., Andhra Pradesh

April, 2023



CERTIFICATE

This is to certify that the project report entitled **FACE SPOOF DETECTION USING COLOUR TEXTURE ANALYSIS BASED ON CNN** submitted by **K.Ramya(19H71A0492), V.Himatrisha(19H71A0472),V.Sai Harshitha (19H71A0495)** to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide record of work. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

Supervisor



Ch. P. Raja
Head of the Department

Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

Ch. P. Raja
Internal Examiner

Yashwant
External Examiner

SMART BIN FOR WASTE MANAGEMENT SYSTEM

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

By

K. Pavani (19H71A0428)

P. Venkata Sai Karthik (19H71A0452)

P. Charan (20H75A0404)

K. Sarath (19H71A0442)

**Under the esteemed guidance of
Mr. G. Kiran Kumar, M.Tech
ASSISTANT PROFESSOR**



Department of Electronics & Communication Engineering

**DVR & Dr. HS
MIC College of Technology
(Autonomous)**

Kanchikacherla– 521180, NTR Dist., Andhra Pradesh

April, 2023



DVR & Dr. HS
MIC College of Technology

Kanchikacherla - 521180, NTR Dist., A.P. India.
Phone: 08678 - 273535, 273623, 9491457799, 7382616824
Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled **SMART BIN FOR WASTE MANAGEMENT SYSTEM** submitted by **K. Pavani(19H71A0428), P. Venkata Sai Karthik(19H71A0452), P. Charan(20H75A0404), K. Sarath(19H71A0442)** to the DVR & Dr. HS MIC College of Technology, Kanchikacherla in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide record of work carried out by THEM under our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor



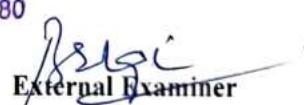

Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

ELECTRONIC NOTICE BOARD (ENB) FOR FACULTY COMMUNITY

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology
In
Electronics & Communication Engineering
By

G. Pravallika (19H71A04E2) **Shaik. Ameer Hamza (19H71A04B7)**
B. Manikanta (19H71A04D5) **U. Surendra Babu (19H71A04F6)**

*Under the Esteemed Guidance of
Mrs. K. Manasa Lakshmi, M. Tech
Assistant professor*



Department of Electronics and Communication Engineering

DVR & Dr. HS
MIC College of Technology
(Autonomous)
Kanchikacherla – 521180, NTR Dist., Andhra Pradesh

April, 2023



DVR & Dr. HS
MIC College of Technology

Kanchikacherla - 521180, NTR Dist., A.P. India
Phone: 08678 - 273535, 273623, 0401457700, 7382616824
Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled "**ELECTRONIC NOTICE BOARD (ENB) FOR FACULTY COMMUNITY**" submitted by **G. Pravallika (19H71A04E2)**, **Shaik. Ameer Hamza (19H71A04B7)**, **B. Manikanta (19H71A04D5)**, **U. Surendra Babu (19H71A04F6)**, to the DV R & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

K. Manasa Lakshmi

Supervisor




Ch. Palle
Head of the Department



Principal

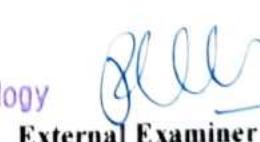
PRINCIPAL

DVR & Dr. HS MIC College of Technology

Kanchikacherla, N.T.R. Dt.

Andhra Pradesh, India - Pin - 521180


Internal Examiner


External Examiner

SMART APPROACH FOR E-HEALTH MONITORING SYSTEM

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

By

Ch. Nehitha Devi (19H71A0427)

G. Anand Sai Kumar(20H75A0402)

P. Venkatesh (19H71A0456)

**Under the Esteemed Guidance of
Mrs.K. Manasa Lakshmi, M. Tech
Assistant Professor**



Department of Electronics and Communication Engineering

DVR & Dr. HS

MIC College of Technology

(Autonomous)

Kanchikacherla– 521180, NTR Dist., Andhra Pradesh

April, 2023



CERTIFICATE

This is to certify that the project report entitled "**Smart Approach For E-Health Monitoring System**" submitted by **Ch. Nehitha Devi (19H71A0427)**, **G. Anand Sai Kumar (20H75A0402)**, **P.Venkatesh (19H71A0456)** to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bona fide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

K. Manasa Lakshmi

Supervisor



Ch. Palle
Head of the Department

Principal

Internal Examiner

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt. External Examiner
Andhra Pradesh, India – Pin: 521180

DEVELOPMENT OF SPEAKING SYSTEM FOR MUTED PEOPLE USING HAND GESTURES

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

By

K. Charishma(19H71A04C0)

M. Sai Srinivas (19H71A04F0)

K. Ramya (19H71A04E4)

Ch. Novahu(19H71A0485)

*Under the Esteemed Guidance of
Mr. G. V. P. Chandra Sekhar Yadav,
M.tech,(Ph.D)
Assistant Professor*



Department of Electronics and Communication Engineering

DVR & Dr. HS

MIC College of Technology

(Autonomous)

Kanchikacherla – 521180, NTR Dist., Andhra Pradesh

April, 2023



DVR & Dr. HS

MIC College of Technology

Kanchikacherla - 521180, NTR Dist., A.P, India.
Phone: 08678 - 273535, 273623, 9491457799, 7382616824
Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled "**DEVELOPMENT OF SPEAKING SYSTEM FOR MUTED PEOPLE USING HAND GESTURES**" submitted by **Ms. K. Charishma (19H71A04C0)**, **Mr. M. Sai Srinivas (19H71A04F0)**, **Ms. K. Ramya (19H71A04E4)**, **Mr. Ch. Novahu (19H71A0485)**, to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor



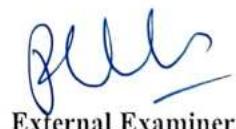

Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

ARDUINO BASED 2D CNC PLOTTER

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

by

**A. Jahnavi (19H71A0473)
SD. Abdulla (19H71A0458)**

**SK. Nagulmeera (19H71A0481)
T. Naveen Kumar (19H71A0483)**

Under the Esteemed Guidance of

**Mr. G. V. P. Chandra Sekhar Yadav, M.Tech,(Ph.D)
Assistant Professor**



Department of Electronics & Communication Engineering

DVR & Dr. HS

**MIC College of Technology
(Autonomous)**

Kanchikacherla-- 521180, NTR Dist., Andhra Pradesh

April, 2023



CERTIFICATE

This is to certify that the project report entitled **ARDUINO BASED 2D CNC PLOTTER** submitted by **A.Jahnavi(19H71A0473),SK.Nagulmeera(19H71A0481), SD.Abdulla(19H71A0458), T. Naveen Kumar(19H71A0483)** to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics and Communication** Engineering is a bonafide record of work. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor



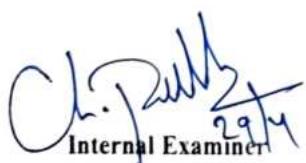

Head of the Department



Principal

PRINCIPAL

DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

LEAF DISEASE DETECTION SYSTEM AND AUTOMATIC PESTICIDE SPRAYING CONTROL ROBOT USING RASPBERRY PI

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

**Bachelor of Technology
In
Electronics & Communication Engineering**

By

Seema Afreen Khan (19H71A0443) M. Venkata Vijay(19H71A0455)

T. Raja (19H71A0434) V. Raja Rajeswari(19H71A0433)

**Under the Esteemed Guidance of
Mr. K. Veenanand, M. Tech.
Assistant Professor**



Department of Electronics and Communication Engineering

**DVR & Dr. HS
MIC College of Technology
(Autonomous)**

Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023



DVR & Dr. HS
MIC College of Technology

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Phone: 08678 - 273535, 273623, 9491457799, 7382616821
Website: www.mietech.ac.in



CERTIFICATE

This is to certify that the project report entitled "**Leaf Disease Detection System and Automatic Pesticide Spraying Control Robot Using Raspberry Pi**" submitted by **Ms. Seema Afreen Khan (19H71A0443), Mr. M. Venkata Vijay (19H71A0455), Mr. T. Raja (19H71A0434), Ms. V. Raja Rajeswari (20H75A0433)** to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor




Head of the Department



Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

POWER SHOE : PIEZOELECTRIC WIRELESS POWERTRANSFER - A MOBILE CHARGING TECHNIQUE.

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology

In

Electronics & Communication Engineering

By

**K. Ritheesh Reddy(19H71A0493)
G. Ramya (19H71A0491)**

**K. Samhitha(19H71A0497)
K .Mahesh(19H71A0478)**

Under the Esteemed Guidance of

**Mr. K.Veenanand, M.Tech.
Assistant Professor**



Department of Electronics & Communication Engineering

**DVR & DR.HS
MIC COLLEGE OF TECHNOLOGY**

**(Autonomous)
Kanchikacherla-- 521180, NTR Dist., Andhra Pradesh**

April, 2023



CERTIFICATE

This is to certify that the project report entitled "**Power Shoe : Piezoelectric Wireless Power transfer -A Mobile Charging Technique**" submitted by **Mr. K. Ritheesh Reddy (19H71A0493), Ms . K. Samhitha (19H71A0497), Ms. G. Ramya (19H71A0491), Mr. K. Mahesh (19H71A0479)** to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


(Mr.K.Veenanand)
Supervisor

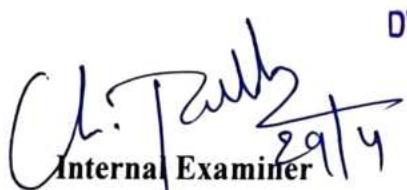



(Dr.Ch.Pulla Rao)
Head of the Department



(Dr.T.Vamsee Kiran)
Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

**"AN IoT-BASED AUTOMATIC LUMINOSITY AND
SOIL MOISTURE CONTROL SYSTEM FOR
POTTING SHED"**

*A project report
Submitted in partial fulfilment of the
Requirements for the award of the degree of*

Bachelor of Technology
In
Electronic & Communication Engineering
By

B. Sahithi (19H71A04E7)
Ch. Venkata Sri Harsha (19H71A04G1)
G. Akanksha (19H71A04B5)

*Under the Esteemed Guidance of
Mr. T. Vijaya Kanth, M.Tech.,
Assistant Professor*



Department of Electronics & Communication Engineering
DVR & Dr. HS
MIC College of Technology
(Autonomous)
Kanchikacherla–521180, NTR Dist, Andhra Pradesh
April, 2023



CERTIFICATE

This is to certify that the project report entitled "**An IoT-based Automatic Luminosity and Soil Moisture Control System for Potting Shed**" submitted by **B. Sahithi (19H71A04E7), CH. Venkata Sri Harsha (19H71A04G1), G. Akanksha (19H71A04B5)** to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in Electronic & Communication Engineering is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.



(T. Vijaya Kanth)

Supervisor

(Dr. CH. Pulla Rao)

Head of the Department

(Dr.T.Vamsee Kiran)

Principal

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External Examiner

Andhra Pradesh, India – Pin: 521180

Internal Examiner

PULLA

“WIRELESS HEALTHCARE SENSING AND MONITORING SYSTEM FOR MEDICAL COMMUNICATION IN IoT”

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology
In
Electronics & Communication Engineering

By

G. Asritha (19H71A0402) **P. Mohan Babu(19H71A0422)**

N. Lakshmi Durga (20H75A0411)

Under the Esteemed Guidance of
Mr. T. Vijay Kanth, M. Tech
Assistant Professor



Department of Electronics and Communication Engineering

DVR & Dr. HS
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Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023



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Website: www.muetech.ac.in



CERTIFICATE

This is to certify that the project report entitled "**Wireless Healthcare Sensing and Monitoring System for Medical Communication in IoT**" submitted by **G. Asritha(19H71A0402)**, **P. Mohan Babu(19H71A0422)**, **N. Lakshmi Durga (20H75A0411)**, to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

~~Supervisor~~
29/4/27



Head of the Department

Principal

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Andhra Pradesh, India – Pin: 521180

Internal Examiner

External Examiner

"LINE FOLLOWING ROBOT WITH OBSTACLE AVOIDANCE"

*A project report
Submitted in partial fulfilment of the
Requirements for the award of the degree of*

Bachelor of Technology
In
Electronics & Communication Engineering
By

N. Lakshmi Sai Ramya(19H71A04D2) S. Anilkumar(19H71A04B8)
G. Harish(19H71A04C5) T. Rohini Chowdary(20H75A0421)

Under the Esteemed Guidance of
Mrs. B. Rajya Lakshmi, M. Tech.,
Assistant Professor



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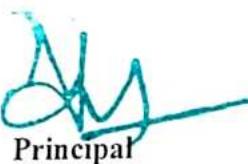
CERTIFICATE

This is to certify that the project report entitled "**Line Following Robot With Obstacle Avoidance**" submitted by **Ms. N. Lakshmi Sai Ramya (19H71A04B8)**, **Mr. S. Anil Kumar(19H71A04B8)**, **Mr. G. Harish (19H71A04C5)**, **Ms. T. Rohini Chowdary (20H75A0421)** DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor

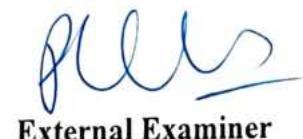



Head of the Department


Principal

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Andhra Pradesh, India - Pin: 521180


Internal Examiner


External Examiner

GAS LEAKAGE DETECTION AND ALERTING SYSTEM USING ARDUINO UNO

*A Project Report
submitted in partial fulfillment of the
requirements for the award of the degree of*

Bachelor of Technology
In
Electronics & Communication Engineering

By

S. Brahma Reddy (19H71A0408)
A.Poojitha (19H71A0429)
A. Praveen Kumar (19H71A0432)

Under the Esteemed Guidance of
B.Rajya Lakshmi M.Tech
Assistant professor



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Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

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CERTIFICATE

This is to certify that the project report entitled "**Gas Leakage Detection And Alerting System Using Arduino Uno**" submitted by **S.Brahma Reddy (19H71A0408), A.Poojitha (19H71A0429), A.Praveen Kumar (19H71A0432)** to the DVR & Dr. HS MIC College of Technology in partial fulfilment of the requirements for the award of the Degree Bachelor of Technology in **Electronics & Communication Engineering** is a bonafide record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Supervisor




Head of the Department

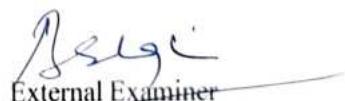


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