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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		

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

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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	MALLISETTI AKHILA	Dr. K. MICHAEL ANGELO	Smart Wi-Fi Based Door bell circuit development for homes
	19H71A04F1	ANAPALA SAI TEJESWARA REDDY		
	19H71A0416	SINGAMSETTY KUMAR VARDHAN		
B6	19H71A0471	CHAMARTHI HIMA SREE	Ms S. NAGA LAKHSMI	Emergency Management and Accident Reporting System Using IoT
	19H71A0462	SHAIK ARSHIYA		
	20H75A0416	MEGHANA BURADAGUNTA		
	19H71A0480	MOHAMAD MUSTAFFA KHAN		
B7	19H71A0476	SARIPALLI LAHARI	Dr. CH. PULLARAO	Low Light Image Signal Processing Net With Two Stage Network
	20H75A0412	BANTUPILLI LAKSHMI PRIYANKA		
	19H71A0486	BONAM PRASANTH RAJU		
	19H71A04B0	CHILAPARAPU VAMSI		
B8	19H71A0475	JAVVADI KAVYA SRI	Mr. B.R.K. SINGH	Smart room - A gesture controlled technology
	20H75A0415	TUPAKULA MAHESH		
	19H71A04A2	MUDAGANI SRIDHAR		
	19H71A0494	CHENNAPRAGADA SADHANA		
B9	19H71A0460	CHEPURI ADITYA SAI AKHIL	Dr. B. PRAGATHI	IoT Based Water Management system
	19H71A0467	SIVARATRI GAYATRI		
	20H75A0417	KANDULA NAVEEN KUMAR		

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

	19H71A04F4	BOYINA SOWJANYA		Autonomous Delivery Robot
	19H71A04C9	GUDDURU KEERTHI		
C3	19H71A04D0	MADDURU KOTESWARAMMA		
	20H75A0425	PATAPANCHULA TRINADH	Mr. G. KIRAN KUMAR	
	19H71A04E8	VEMPATI SAI KRISHNA		Prevalence and Early detection of diabetes using machine learning
	19H71A04G3	KURITI VENU		
C4	19H71A04F7	MUNDRU TIRUMALA RAO	Mr. M. ANIL KUMAR	
	19H71A04D8	PURAMSETTY NAGA HARSHITHA		
	19H71A04G5	PALLANTI YESASWANI		An IoT Based Coal Mine Safety and Health Monitoring System using LoRaWAN
C5	19H71A04C4	HANI PRIYA MANDRU	Mr. T. NARENDRA	
	20H75A0423	NUTHALAPATI SHARATH CHAND		
	19H71A04E2	GUDIPUDI PRAVALLIKA		E- Notice Board (ENB) for the faculty community
	19H71A04B7	SHAIK AMEER HAMZA	Mrs. K. MANASA LAKSHMI	
C6	19H71A04D5	BOLEM MANI KANTA		
	19H71A04F6	UPPULURU SURENDRA BABU		
	19H71A04D2	NEPPALLI LAKSHMI SAI RAMYA		Line following robot with obstacle avoidance
	19H71A04B8	SHALIKA ANILKUMAR	Mrs. B. RAJYA LAKSHMI	
C7	19H71A04C5	GALAM HARISH		
	20H75A0421	TOLU ROHINI CHOWDARY		
	19H71A04C0	KALYANAPU CHARISHMA		Development of speaking system for muted people using hand gestures
	19H71A04F0	MADDALA SAI SRINIVAS	Mr. G. V. P. CHANDRA SEKHAR YADAV	
C8	19H71A04E4	KALVA RAMYA		
	19H71A0485	CHILAKA NOVAHU		Design and Implementation of Autonomous lawn Mower Robotic Controller
	19H71A04C3	NAGOTHI GIRIDHAR	Mr. S. RAMAKOTESWARA RAO	
	19H71A04E3	MANDADI RAMAKRISHNA		
C9	19H71A04C1	KARUPATI DHARANI		
	19H71A04D7	GUDIVADA N S S M RANGA NANDHITHA		
	19H71A04F9	RACHAKONDA VANAJA		Early detection and prevention of cervical cancer
	20H75A0419	SEELAM PRAVALLIKA		
C10	19H71A04G2	MADDINENI VENKATESWARLU	Mr. D. RAKESH	
	19H71A04G6	GAMPA YUVA KIRAN		
C11	19H71A04B9	KATTA AVINASH SEKHAR	Mr. M. SAI GANESH	IOT Based Crop Protection System Against Birds and

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

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)

Ch. S. R. Krishna (19H71A0499)

T. Tanmai Priya (19H71A04A8)

Ch. Sai Teja (19H71A0496)

Under the Esteemed Guidance of

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

Department of Electronics & Communication Engineering

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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 forthe award of any Degree.

(Dr. P. Rajani Kumari)
Supervisor

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

(Dr. T. Vamsee Kiran)
Principal

Internal Examiner

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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 1/5/23

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Head of the Department

Principal

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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.

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Principal

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Andhra Pradesh, India – Pin: 521180

Internal Examiner

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)

S. Gopi Krishna (20H75A0407)

K. Mahith Sai (19H71A0420)

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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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.

Supervisor 28/4

Head of the Department

Principal

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Internal Examiner

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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Kanchikacherla – 521180, NTR Dist., Andhra Pradesh

April, 2023

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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

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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)

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

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

Principal
(Dr. T. Vamsee Kiran)

PRINCIPAL
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Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

29/4

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

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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 **"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

By

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

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Kanchikacherla–521180,NTRDist,AndhraPradesh

April, 2023

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.

Supervisor

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

Head of the Department

Principal

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

29/4

InternalExaminer

ExternalExaminer

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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Website: www.mictech.ac.in

AUTONOMOUS
Accredited by NAAC With Grade A

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.

Supervisor

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

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 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
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Kanchikacherla– 521180, NTR Dist, Andhra Pradesh

April, 2023

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AUTONOMOUS
NBA-Accredited
B.Tech: (CSE | ECE | ME)
NAAC
With Grade A

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.

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

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 otherInstitute for the award of any Degree.

Supervisor

(Dr.B.Pragathi)

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

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

29/4

Internal Examiner

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

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April, 2023

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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
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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

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AUTONOMOUS
Accredited by NAAC With Grade A

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.

P. Narendra Kumar
Supervisor

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Head of the Department

Principal

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Internal Examiner

External Examiner

"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	**(19H71A04G5)**
M.Hani Priya	**(19H71A04C4)**
N.Sarath Chand	**(20H75A0423)**

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

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MIC College of Technology
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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 **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.

(Mr.T. Narendra kumar)
Supervisor

(Dr.CH. Pullarao)
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

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 otherInstitute for the award of any Degree.

Supervisor 28/4/2023
(Mr.M. Anil Kumar)

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 29/4

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

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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
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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

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

(Dr.T.Vamsee Kiran)
Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
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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
requirementsfor 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

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April, 2023

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

AUTONOMOUS
NBA-Accredited
Accredited by NAAC With Grade A

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 inpartial 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 theaward of any Degree.

MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

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

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Phone: 08678 - 273535, 273623, 9491457799, 7382616824
Website: www.mictech.ac.in

AUTONOMOUS
Accredited by NAAC With Grade A

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 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
(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** of is a bonafide record of work carried out by them under our guidance and supervision. The contents of this report, in full or inparts, have not been submitted to any other Institute for the award of any Degree.

M. Ganesh
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

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MIC College of Technology
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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 **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, 9491457799, 7382616824
Website: www.mictech.ac.in

AUTONOMOUS
Accredited by NAAC With Grade A

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

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

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.

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

(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.

28/4/2023

(M. Anil Kumar)

Supervisor

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

(CH. Pulla Rao)

Head of the Department

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

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

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AUTONOMOUS
NBA-Accredited
B.Tech (CSE|ECE|ME)
Accredited by NAAC With Grade A

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

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
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Kanchikacherla– 521180, NTR Dist., Andhra Pradesh

April, 2023

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AUTONOMOUS
NBA-Accredited
B.Tech (CSE|ECE|ME)
Accredited by NAAC With Grade A

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.

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

Supervisor

Head of the Department

Principal

PRINCIPAL
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29/4

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.

Supervisor
(Ms.S.Naga Lakshmi)

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)

B.Meghana(20H75A0416)

Sk.Arshiya(19H71A0462)

Md.Mustaffakhan(19H71A0480)

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

Department of Electronics & Communication Engineering

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(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.

Supervisor

(Ms. S. Naga 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

"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)

M. Venkateswarlu (19H71A04G2)

S. Pravallika (20H75A0419)

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.

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 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
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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.

D. Rakesh
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

29/4
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

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April, 2023

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Website: www.mictech.ac.in

AUTONOMOUS
Accredited by NAAC With Grade A

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

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

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 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

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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 requitements 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. Pullarao)

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
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Kanchikacherla– 521180, NTR Dist., Andhra Pradesh

April,2023

Devineni Venkata Ramana & Dr. Hima Sekhar

MIC College of Technology

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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

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

Principal

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

29/4/23

Internal Examiner **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
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Website: www.mictech.ac.in

AUTONOMOUS
Accredited by NAAC With Grade A

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

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

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

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Kanchikacherla–521180, NTR Dist., Andhra Pradesh

April, 2023

DVR & Dr. HS
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Website: www.mictech.ac.in

AUTONOMOUS
Accredited by NAAC With Grade A

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.

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535 NAAC

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

MIC College of Technology

(Autonomous)

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

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin: 521180 Ph.273535

Head of the Department

Principal

PRINCIPAL
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Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180

Internal Examiner

External Examiner

"WOMEN SAFETY DEVICE USING NODEMCU"

A major project report submitted to
Jawaharlal Nehru Technological
University Kakinada in partial fulfillment to
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

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(2022-2023)

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

(2022-2023)

CERTIFICATE

is is to certify that the project report entitled "**Women Safety Device Using NodeMCU**" submitted by **Tejaswini(19H71A04A9),P.BhagavanNarayana(19H71A0463),V.Prudhvi(19H71A0488),V.Likitha 9H71A0477)** to the DVR&Dr.HS MIC College of Technology in partial fulfillment of the requirements for the ard of the Degree Bachelor of Technology in **Electronics and Communication Engineering** is a bonafide ord of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in ts, have not been submitted to any otherInstitute for the award of any Degree

Project Supervisor

Head of the Department

Principal

PRINCIPAL
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Andhra Pradesh, India - Pin: 521180

29/4/23

Internal Examiner

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

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MIC College of Technology

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Kanchikacherla– 521180, NTR Dist,Andhra Pradesh

April, 2023

DVR & Dr. HS

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(Autonomous)
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AUTONOMOUS
NBA-Accredited
B.Tech (CSE|ECE|ME)
Accredited by NAAC With Grade A

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 of 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 toany other Institute for the award of any Degree.

Project Supervisor

DVR & DR. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

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

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Kanchikacharela-- 521180, NTR Dist., Andhra Pradesh

April, 2023

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MIC College of Technology
ISO 9001:2015 Certified Institute
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Kanchikacherla - 521180, Krishna Dist., A.P. India

NBA Accredited

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

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

Head of the Department

Principal

PRINCIPAL
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Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

29/4

Internal Examiner

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. Charan (20H75A0404)
P. Venkata Sai Karthik (19H71A0452)
K. Sarath (19H71A0442)

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

Department of Electronics & Communication Engineering

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April, 2023

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Accredited by NAAC With Grade A

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)

B. Manikanta (19H71A04D5)

Shaik. Ameer Hamza (19H71A04B7)

U. Surendra Babu (19H71A04F6)

Under the Esteemed Guidance of

Mrs. K. Manasa Lakshmi, M. Tech
Assistant professor

Department of Electronics and Communication Engineering

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Kanchikacherla – 521180, NTR Dist., Andhra Pradesh

April, 2023

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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 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.

K. Manasa lakshmi

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 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

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April, 2023

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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 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

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

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)
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April, 2023

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Website: www.mictech.ac.in

AUTONOMOUS
Accredited by NAAC With Grade A

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

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MIC College of Technology

(Autonomous)

Kanchikacherla-- 521180, NTR Dist., Andhra Pradesh

April, 2023

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

NBA Accredited

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.
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29/4

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

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April, 2023

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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
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(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 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.

for.
(Mr.K.Veenanand)
Supervisor

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY
Kanchikacherla
Pin : 521180
Ph.273535

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

(Dr.T.Vamsee Kiran)
Principal

PRINCIPAL
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Andhra Pradesh, India – Pin: 521180

29/4

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.

DVR & Dr. HS MIC COLLEGE OF TECHNOLOGY Kanchikacherla Pin : 521180 Ph.273535

28/4/23

(T. Vijaya Kanth)
Supervisor

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

(Dr.T.Vamsee Kiran)
Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
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Andhra Pradesh, India – Pin: 521180

Internal Examiner

External Examiner

"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

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April, 2023

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Website: www.mictech.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.

29/4/22

Supervisor

Head of the Department

Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technolo
Kanchikacherla, N.T.R. Dt.
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

Department of Electronics & Communication Engineering

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Kanchikacherla–521180, NTR Dist, Andhra Pradesh

April, 2023

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Website: www.mictech.ac.in

AUTONOMOUS
Accredited by NAAC With Grade A

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

PRINCIPAL
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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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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.

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External Examiner

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

योगः कर्मसु कौशलम्

KAKINADA

"AREA AND LATENCY OPTIMIZED EFFICIENT DIGITAL DESIGN OF 32 - BIT RISC PROCESSOR"

A Project report submitted to

Jawaharlal Nehru Technological University Kakinada

in partial fulfillment for the award of the degree of

MASTER OF TECHNOLOGY

In

VLSI AND EMBEDDED SYSTEMS

Submitted by

S.LAKSHMI DEEPIKA

(21H71D6801)

Under the Esteemed Guidance of

Dr. CH.PULLARAO, Associate Professor,
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2022-2023

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

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Kanchikacherla, NTR Dist, PIN: 521180, A.P, India.

CERTIFICATE

This is to certify that the project entitled **"AREA AND LATENCY OPTIMIZED EFFICIENT DIGITAL DESIGN OF 32 - BIT RISC PROCESSOR"** is a bonafide work carried out by **Lakshmi Deepika. S (21H71D6801)**, in partial fulfillment for the award of degree of master of Technology in **VLSI & EMBEDDED SYSTEMS** of **DVR & Dr. HS MIC College of Technology during the year 2022-2023.**

(Dr. CH. PULLA RAO)
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Examiner I

Examiner II

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

"HARDWARE IMPLEMENTATION OF AES IN FPGA"

A Project report submitted to
Jawaharlal Nehru Technological University Kakinada
In partial fulfillment for the award of degree of

MASTER OF TECHNOLOGY

IN

VLSI AND EMBEDDED SYSTEMS

Submitted by

P. Nathan

(21H71D6802)

Under the Esteemed Guidance of

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CERTIFICATE

This is to certify that the project entitled **"HARDWARE IMPLEMENTATION OF AES IN FPGA"** is a bonafide work carried out by **Nathan. P (21H71D6802)**, in partial fulfillment for the award of the degree of master of technology in **VLSI & EMBEDDED SYSTEMS of DVR & Dr. HS MIC College of Technology during the year 2022-2023.**

(Dr. CH. PULLA RAO)

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