Mr. M. Harish

Assistant Professor

Department of Electronics & communication Engineering

Raghu Enginnering College - 531162, Visakhapatnam, INDIA

Gmail id: harish.maradana@raghuenggcollege.in
Interests: signal processing, image processing AI & ML, IoT;

Course Taught Previously

UG.
• Embedded Systems
• Digital Logic Design
• Digital electronics
• Professional human values and rights

Laboratories Handled
• Very large scale integrated lab
• Electronic Devices and circuits Lab
• PDC lab
• Digital electronics lab
• Digital integrated circuits applications lab
• DSP Lab
• MPMC lab

Publications

International Journals

☐ Published a book chapter ''**Drowsiness Detection Using Digital Image Processing**'' in a book titled **Machine Learning and Data Science: Fundamentals and Applications** published by **WILEY** chapter 13 on 22 July 2022.

☐ Published a paper ''**COUNTING CARS USING MACHINE LEARNING**'' in Mukt Shabd Journal, Volume 11, with issn 2347-3150 on February 2022.

☐ Published a paper ''**DISEASES DETECTION USING IMAGE PROCESSING**'' in Mukt Shabd Journal, Volume 10, with issn 2347-3150 on january 2021.

☐ Published a paper ''**TRADE PROGNOSIS ON GAMING DATA USING MACHINE LEARNING METHODS"** in Turkish Journal of Physiotherapy and Rehabilitation, Volume 32, issue 3 with issn 2651-4451 on 2021.

- Published a paper ''**3D Construction of Tumour in Magnetic Resonance Imaging Slices"** in CIIT Digital Image Processing, Volume 8, issue 9 with issn 0974 – 9586 in 2016.

PATENT PUBLICATION:

- National Patent on **A NOVEL EDGE-CLOUD ENABLED DATA DEVIANCE DETECTION IN IOT SYSTEMS** Published on 13th November 2020 with Application No.202041047474 A & The Patent Office Journal No. 46/2020

Conference Proceedings

- Presented Paper in CSIR-New Delhi sponsored National Conference on Recent Advances in Biomedical Signal Image and Video processing(RABSIVP-2K17) entitled "**3D Construction of tumour in magnetic resonance imaging slices"** held at ADITYA Institute of Technology And Management (AUTONOMOUS), K KOTTURU, TEKKALI on 20th, 21st February 2017.
- Presented Paper in IEEE co-sponsored National Conference on Emerging Trends in Signal Processing & Communication Engineering entitled "**PERFORMANCE ANALYSIS OF MULTI-LEVEL WAVELET TRANSFORMS FOR IMAGE DE-NOISES"** held at ADITYA Institute of Technology And Management (AUTONOMOUS), K KOTTURU, TEKKALI on 20th, 21st February 2015.
- Presented Paper in National Conference on Emerging Trends in Signal Processing & Embedded Systems entitled "**Noise Cancellation by using Adaptive Filtering**" held at GEETANJALI College of Engineering and Technology on 9th, 10th February 2012

PHDs Supervised

Name of Student	Area of Research	Remarks *
NILL		

Workshops/Conferences/Seminars/Symposiums organised

Conferences/Symposiums

S. No	Name of the Programme	Dates	Sponsored by	Role
1	ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND DEEP LEARNING WITH MATLAB AND SIMULINK	23RD to 25th NOV 2022.	Department Of ECE, REC in association with CAPRICOT Technologies Pvt. Ltd, Hyderabad	TECHNICAL COORDINATOR

Seminars, Workshops and STTPs

S. No	Name of the Programme	Dates	Sponsored by
1	Advances in Wireless Communications and Antenna Technologies for Space, Vehicular and Ground Applications	12th June, 2023.	Jointly organized by Raghu Institute of Technology (A) and Raghu Engineering College (A)

2	Inculcating Universal Human Values in Technical Education	31st October to 4th November 2022	All India Council for Technical Education (AICTE)
3	ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND DEEP LEARNING WITH MATLAB AND SIMULINK	23RD to 25th NOV 2022.	Department Of ECE, REC in association with CAPRICOT Technologies Pvt. Ltd, Hyderabad
4	Analog & Digital IC Design Using CADENCE Design Flow	26th OCT to 29th OCT 2022	Department Of ECE, REC in association with Entuple Technologies Pvt. Ltd, Hyderabad
5	IP Awareness/Training program under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION	July 01,2022	by Intellectual Property Office and MoE's Innovation Cell, India
6	Soft Computing Techniques and Hands on with MATLAB	09/05/2022 to 13/05/2022	Department of Electronics and Communication Engineering of Aditya Institute of Technology and Management(A),Tekkali,AP,India
7	MACHINE LEARNING IN REAL TIME EMBEDDED & IOT APPLICATIONS	2nd- 12th May, 2022	Ministry of Electronics and Information Technology (MeitY) GoI, organized by E&ICT Academy, NIT Warangal and Department of Electronics and Communication Engineering, Raghu Engineering College, Visakhapatnam
8	Advanced Signal Processing, Communications using AI and ML Techniques	21st to25th March, 2022	Department of ECE of GMR Institute of Technology and Sri Sairam Institute of Technology
9	Internet of Things	24 to 30 January, 2022	by E & ICT Academy IIT Guwahati
10	Recent advances in IoT and Machine Learning: Application and Hands-On	16th – 18th December 2021.	Raghu Engineering College
11	RECENT ADVANCES IN SIGNAL PROCESSING	2nd – 6th August 2021	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINAD
12	Biomedical Signal Processing for Smarter Mobile Healthcare	19th – 23rd July 2021.	GIET University

13	Smart Cities	7th – 11th December 2020.	Lendi Institute of Engineering and Technology
14	3D Data Processing with Machine Learning	12th – 16th October 2020	KL deemed to be University
15	Communication, VLSI, Image Processing and Design of antennas (COVID)	3rd - 4th September 2020.	UCEV, JNTUK, Vizianagaram
16	Accelerating Research	27th - 29th August 2020	by Lendi Institute of Engineering and Technology
17	High performance intelligent real-time embedded systems design and IOT to accelerate Automation system into Autonomous system	3rd - 8th August 2020	R.M.K Engineering College
18	Opportunities and challenges in next-generation semiconductor devices	16th – 20th June 2020	Anil Neerukonda Institute of Technology and Sciences (ANITS), Visakhapatnam,
19	Cybersecurity	3rd - 5th June 2020	by Anurag University
20	Multi-carrier modulation in broadband communication and technology in 5G	29th - 30th May 2020	Raghu Engineering College
21	Image Processing and Computer Vision (IPCV)	29th - 31st May 2020	Anil Neerukonda Institute of Technology and Sciences (ANITS), Visakhapatnam,
22	VLSI Technology and Hardware for AI & ML Organized	25th - 27th May 2020	GMRIT
23	Embedded system design on 8-bit microcontroller using KEIL software		ANITS
24	Switching Circuit and logic Design	India July-Oct 2019	the Ministry of HRD, Govt. of India
25	Real-time Embedded Systems & IoT, its applications	2nd - 8th June 2018	E&ICT academy NIT Warangal at Raghu Institute of Technology, Visakhapatnam
26	Advances in Communication Technology	during 26th September-1st October 2016	ADITYA Institute of Technology And Management (AUTONOMOUS), K KOTTURU, TEKKALI
27	Virtual Industry and Simulation Softwares (VISS 2016)	10 to 15 May 2016	Vignan Institute of Information Technology, Duvvada
28	WORKSHOP ON ADVANCES IN DIGITAL SIGNAL PROCESSING (WADSP-16)	19th to 20th February 2016	MVGR College of Engineering (AUTONOMOUS), Vizianagaram

Visit to outside institute/organization:

S. No	Instt. Organization visited	Purpose of visit
NILL		

Continuing Education / QIP Short Term Lectures / Special Lectures given:

S. No.	Title of Lecture / Lecture Series	Place
NILL		

Details of professional training and research experience

S.No.	Title of the Course	Place	Year	Duration
NILL				

Projects
Sponsored R & D, Consultancy Projects:

S. No	Title of Project	Funding Agency	Financial Outlay	Project Period	Project Status
NILL					

Awards and Honors

- Secured **ELITE + Gold & Top 1% in** NPTEL Exam for the course Switching Circuit and Logic Design (July-Oct 2019).
- Secured **ELITE** in NPTEL Exam for the course Digital Electronics Circuits (Jan-Apr 2019).
- Awarded **Gold Medal** in Master of Technology (Digital Electronics and Communication Systems) during the academic year 2014-15
- **International Rank of 47** (as of 9/12/2015) in On-Line Cody Challenge of MATHWORKS
- Won First Prize in Project expo titled "**Moving Object Detection at Night**" in E-CHARGE 2K12 held at PITAM, PALASA on 3rd January 2012
- Secured second place in Science Exhibition at JANA VIGNANA VEDIKA

Additional Responsibility
RESPONSIBILITIES WITHIN THE INSTITUTE:

1. Hostel Convener
2. 2nd year Mentor

POSITIONS HELD OUTSIDE THE INSTITUTE:
Nill