

Curriculum Vitae

Dr. Ette Hari Krishna

Date of birth	10.08.1983
Designation	Assistant Professor Electronics & Communication Engineering
Work Place	University College of Engineering, Kakatiya University, Kothagudem, Telangana State- 507 118 <i>Mobile: +91-99949892604; email: hari_etta@yahoo.co.in</i>

EDUCATION				
Degree	Details (specialization)	Institute/Universit y	Years of Course, Year completed	Percentage, Grade
Diploma	Electronics & Communication Engineering	State Board of Technical Education, Hyderabad	1998-2001, April 2001	73.5, First class
	<i>Project Work: Digital Sine wave generation using 8085 microprocessor</i> <i>Supervisor: Sri. G. Ramchandra Rao, Asst. Prof. of ECE, Govt. Polytechnic College, Warangal, Andhra Pradesh.</i>			
B. Tech.	Electronics & Communication Engineering	JNTU Hyderabad	2001-2004, May 2004	74.13, First class with distinction
	<i>Project Work: Simulation of Controller Area Network (CAN) protocol</i> <i>Supervisor: Dr. B. Ramesh, Professor of ECE, Kamala Institute of Technology & Science, Huzurabad, Karimnagar, Andhra Pradesh</i>			
M. Tech.	Digital Communications (through GATE)	Kakatiya University, Warangal	2007-2009, July 2009	89.9, First class with distinction
	<i>Thesis: Cancellation of echo in audio signals using Hirschman Optimal Transform (HOT) LMS adaptive filter</i> <i>Supervisor: Dr. K. Ashoka Reddy, Professor of ECE, Kakatiya Institute of Technology & Science, Warangal, Andhra Pradesh</i>			
Ph D	Signal Processing for communication	JNTUH, Hyderabad	2011-2021, April 2021	-----
	<i>Thesis: Performance enhancement methods for OFDM Systems</i> <i>Supervisor: Dr. K. Ashoka Reddy, Professor of ECE, Kakatiya Institute of Technology & Science, Warangal, Telangana State.</i> <i>Co-Supervisor: Dr. K. Sivani, Professor of E&I Engg., Kakatiya Institute of Technology & Science, Warangal, Telangana State.</i>			

WORK EXPERIENCE: 21 Years				
Details	Duration	From	To	Organization
<i>Assistant Professor</i>	10 years	9 th Sep 2015	Till date	University College of Engineering, KU, Kothagudem
<i>Assistant Professor</i>	1 ¼ year	1 st June 2014	08 th Sep 2015	University College of Engineering & Technology for Women, KU, WGL
<i>Assistant Professor</i>	4 years	23 rd July 2010	30 th April 2014	KU College of Engineering & Technology, KU Campus, Warangal
<i>Assistant Professor</i>	¼ year	5 th May 2010	22 nd July 2010	University College of Engineering, KU, Kothagudem
<i>Assistant Professor</i>	4 years	11 th Aug 2006	4 th May 2010	Kakatiya Institute of Technology & Science, Warangal
<i>Lecturer (Adhoc)</i>	1 ½ year	29 th Nov 2004	10 th August 2006	Kakatiya Institute of Technology & Science, Warangal

RESEARCH INTERESTS:	
<i>Signal processing for communications, Biomedical signal processing</i>	
Publications in Peer Reviewed Refereed Journals: SCI (8), Scopus (3)	
S. No.	Details
[1].	S Dheenathayalan, S Bukkavar, E. H. Krishna and S Tiwari,” Optimized TDMA framework for channel interference mitigation in IWSN based on self-adaptive affinity propagation clustering,” <i>Springer Optical and Quantum Electronics</i> , vol. 56, no. 12, 1944, Dec 2024. (DOI: 10.1007/s11082-024-07737-1) (SCI)
[2].	K. V. Madhav, E. H. Krishna and K. A. Reddy, “Improved Bivariate-VAR Model for Extraction of Respiratory Information from Artifact Corrupted ECG and PPG Signals. <i>Springer New Gener. Comput.</i> , vol. 42, pp. 859-877, June 2024. (DOI: 10.1007/s00354-024-00265-2) (SCI)
[3].	B. V. Rao, E. H. Krishna and K. A. Reddy, “Wavelet transform generated inherent noise reference for adaptive filtering to de-noise pulse oximeter signals,” <i>Serbian Journal of Electrical Engineering</i> , vol. 21, no. 2, pp. 251-273, June 2024. (DOI: https://doi.org/10.2298/SJEE2402251R) (Scopus)
[4].	B. Jeevan, K. Bikshalu, E. H. Krishna and K. Sivani, “Design of 2-1 multiplexer based high-speed, two-stage 90 nm carry select adder for fast arithmetic units,” <i>Elsevier Microprocessor and Microsystems</i> , vol. 99, 104846, June 2023. (DOI:10.1016/j.micpro.2023.104846) (SCI)
[5].	E. H. Krishna , K. Sivani and K. A. Reddy, “OFDM channel estimation along with de-noising approach under small SNR environment using SSA,” <i>Journal of Communications software and systems</i> , vol. 18, no.1, pp. 28-35, March 2022. (DOI: 10.24138/jcomss.v18i1.1082, ISSN: 1845-6421) (Scopus)

[6].	E. H. Krishna , K. Sivani and K. A. Reddy, "New channel estimation method using singular spectrum analysis for OFDM Systems," <i>Springer Wireless Personal Communications</i> , vol. 101, pp. 2193-2207, August 2018. (DOI: 10.1007/s11277-018-5811-5) (SCI)
[7].	E. H. Krishna , K. Sivani and K. A. Reddy, "On the use of EMD based adaptive filtering for OFDM channel Estimation," <i>Elsevier AEÜ International Journal of Electronics and Communications</i> , vol. 83, pp. 492-500, January 2018. (DOI: 10.1016/j.aeue.2017.11.002) (SCI)
[8].	E. H. Krishna , K. Sivani and K. A. Reddy, "Empirical mode decomposition based adaptive filtering for orthogonal frequency division multiplexing channel estimation," <i>International Journal of Engineering (IJE) Transactions A: Basics</i> , vol. 30, no. 10, pp. 1517-1525, October 2017. (DOI: 10.5829/ije.2017.30.10a.13) (Scopus)
[9].	M. R. Ram, K. V. Madhav, E. H. Krishna , K. N. Reddy and K. A. Reddy, "A novel approach for motion artifacts reduction in PPG signals based on AS-LMS adaptive filter," <i>IEEE Trans. Instrum. Meas.</i> , vol. 61, no.5, pp. 1445-1457, May 2012. (DOI: 10.1109/TIM.2011.2175832) (SCI)
[10].	K. V. Madhav, M. R. Ram, E. H. Krishna , K. N. Reddy and K. A. Reddy, "Robust extraction of respiratory activity from PPG Signals using modified MSPCA," <i>IEEE Trans. Instrum. Meas.</i> , vol. 62, no.5, pp. 1094-1106, May 2013. (DOI: 10.1109/TIM.2012.2232393) (SCI)
[11].	M. R. Ram, K. V. Madhav, E. H. Krishna , K. N. Reddy, K. Sivani and K. A. Reddy, "ICA based Improved DTCWT technique for MA reduction in PPG signals with restored respiratory information," <i>IEEE Trans. Instrum. Meas.</i> , vol. 62, no.10, pp. 2639-2651, October 2013. (DOI: 10.1109/TIM.2013.2259114) (SCI)

Publications in Refereed IEEE Conference Proceedings: 47

DETAILS OF BOOKS / BOOK CHAPTERS AUTHORED (OR) CO-AUTHORED

[1].	E. H. Krishna and K. A. Reddy, "Use of transforms in biomedical signal processing and analysis," in Dr. Juan Manuel Velazquez Arcos, <i>Real perspective of Fourier Transforms</i> , Intech open, May 2021. (Book Chapter) (ISBN: 978-1-83962-398-1)
[2].	E. H. Krishna , K. Sivani and K. A. Reddy, "OFDM Transceiver Using Hirschman Optimal Transform", Elsevier Science & Technology, 2014 (Book Chapter) (ISBN: 978-935-107-228-7)
[3].	Article presented at <i>International conference ICEDSP 2009</i> published in chapter 1 of book titled "Electronic Design and Signal Processing" Edited by Kumara Shama, K. P. Nayak & Somashekara Bhat, Published by <i>Narosa Publishing House Pvt. Ltd.</i> , 2012, India. (Book Chapter) (ISBN: 978-81-8487-160-9)

<https://orcid.org/0000-0001-6668-7245>

Researcher ID: O-9100-2015

Scopus ID: 55823772800

Projects

S. No.	Project details	Status
[1].	RUSA 2.0 Project Center for cyber physical system (Amount Rs. 3,00,00,000/-) Principal Investigator for Sub center: Next Generation wireless communication system (Project order number: 47/RUSA/R&I/KU/2025 dated 22/01/2025)	Ongoing

Awards and Honours

S. No.	Award Name	Year
[2].	Outstanding Contribution in Reviewing - Elsevier AEU International Journal of Electronics and Communications	2018
[3].	Rotary club of Kakatiya, Hanamkonda, Nation Builder Award 2016 and best teacher on 5th September 2016.	2016

Details of FDP/Workshop organized

S. No.	Sponsor	Name of the FDP/ Workshop	Duration
[1].	AICTE ATAL Sponsored online FDP	Challenges in capstone of 5G and Artificial Intelligence (C ² 5GAI)	5 th October to 9 th October 2020

FOREIGN VISITS

S. No.	Place of visit	Purpose of visit	Name of Event	Duration
[1].	Kaulalumpur, Malaysia	Paper Presentation	<i>IEEE EMBS International Conference on Biomedical Engineering & Sciences IECBES 2010</i>	Nov 30 to Dec 02, 2010
[2].	Hangzhou, China	Paper Presentation	<i>28th IEEE International Instrumentation and Measurement Technology Conf., I²MTC-2011</i>	10-12 May, 2011
[3].	Graz, Austria	Paper Presentation	<i>29th IEEE International Instrumentation and Measurement Technology Conference, I²MTC-2012</i>	12-17 May, 2012
[4].	Budapest, Hungary	Paper Presentation	<i>IEEE International Symposium on Medical Measurements and Applications, MeMeA 2012</i>	18-19 May, 2012

PROFESSIONAL AFFILIATION

S. No	Details
1.	Member – Institute of Electrical and Electronics Engineers (IEEE – 91235689)
2.	Member – IETE-AM 189173

S. No.	Title of the talk	Name of the Programme
1.	Fundamentals of Digital Communication systems	APSCHE Sponsored Training Programme on “ <i>Microprocessors, Microcontrollers and Digital Communications</i> ” to the PG teachers during 13 th -17 th July 2010 at department of Physics, Kakatiya University, Warangal
2.	Use of MATLAB in Digital Signal Processing	Faculty Development Programme on <i>DSP & Its Applications (DSPA)</i> , 8-9, February 2013, organized by department of Electronics & Instrumentation Engineering, KITS Warangal in Association with IETE Warangal Center.
3.	Talk on ‘ Adaptive Signal Processing in Communications ’ dated 22-12-2016	IETE National level FDP on “ <i>Signal processing and its applications</i> ” 19 th December to 23 rd December 2017 organized by Department of Electronics & Communication Engineering, KITS Huzurabad.
4.	Talk on ‘ Channel estimation techniques for OFDM ’ dated 06-12-2017 & 07-12-2017	AICTE Sponsored FDP on “ <i>Hands on Approach of OFDM system designing in MATLAB</i> ” 27 th November to 8 th December 2017 organized by Department of Electronics & Communication Engineering, KITS Warangal.
5.	Talk on ‘ MATLAB Tool ’ dated 25-05-2018	DST SERB Sponsored one week seminar on “ <i>Emerging trends in Wireless Networking</i> ” 21 st May to 25 th May 2018 organized by Department of Information Technology, KITS Warangal.
6.	10 th May 2019	Key note speaker at the International Conference on Research Trends in Science, Technology, Engineering & Management (ICRSTEM-2019) during 10 th to 12 th May 2019.
7.	Talk on ‘ Channel estimation techniques for 4G and 5G wireless communications ’ dated 06-11-2020, 18-12-2020, 19-01-2021	AICTE Sanctioned STTP on Hands on Project Based Approach of 5G system designing in MATLAB (Virtual) Duration: 1 week (Online - 3 Phases) (Nov 02-07, 2020; Dec 14-19, 2020; and Jan 18-23, 2021), organized by Department of ECE, Venue: KITS, Warangal
8.	Talk on ‘ Real time perspectives of Wavelet transform in analysis of Biomedical Signals ’ dated 06-01-2021, 08-02-2021	AICTE Sanctioned FDP on Hands on Project Based Approach of Biomedical Signal Analysis using MATLAB (Virtual), Duration: 2 weeks (Online - 2 Phases) (Dec 28, 2020- Jan 1, 2021; and Feb 01-13, 2021) organized by Department of ECE, Venue: KITS, Warangal

9.	Talk on 'Time-Frequency Analysis & ML techniques for Biomedical Signals' dated 30-06-2022	Ministry of Electronics and Information Technology (MeitY) , sponsored online faculty development program (FDP) on "AI & Machine Learning for Biomedical signal and Image Analysis" during 27 th June to 6 th July 2022 organized by E & ICT Academy, NIT Warangal in association with KITS Warangal.
10.	Talk on 'MATLAB for Engineering Applications' dated 28 th October 2023.	A 3 day workshop on Matlab and 3D printing applications in Engineering, Organized by Department of ECE and ME, KU College of Engineering & Technology, KU Campus, Warangal during 27 th -29 th October 2023
11.	Talk on 'Hypotheses Testing: Parametric' dated 6 th August 2024	Research methodology workshop organized by Faculty of Engineering & Technology, Kakatiya University, Warangal during 5 th to 9 th August 2024 for all newly admitted PhD scholars
12.	Talk on 'Non-parametric Hypotheses Testing' dated 7 th August 2024	

SWAYAM NPTEL ONLINE COURSES - COMPLETED				
S. No	Course Title	Details		
		Duration	During	Result
1	NPTEL "Applied optimization for Wireless, Machine Learning and Big data,"	12 weeks	July-Oct 2023	Elite + Gold (97%) Course Topper
2	NPTEL "Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning" IIT Kharagpur	12 weeks	Jan-Apr, 2021	Elite + Silver (81%)
3	NPTEL "Digital Signal Processing" IIT Madras	12 weeks	July-Oct, 2019	Elite (64%)
4	SWAYAM ARPIT "Refresher Course on Teacher and Teaching in Higher Education" Savitribai Phule Pune University	16 weeks	1 st Sep 2019 to 31 st Dec, 2019	Grade B (69%)

5	SWAYAM ARPIT “Leadership And Governance In Higher Education. Level 2” Refresher Course on Teacher and Teaching in Higher Education” Savitribai Phule Pune University	16 weeks	1 st Dec 2020 to 31 st Mar, 2021	Grade B (65%)
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Selected as **Young S&T Leader** (under less than 45 years age category) as a **delegate** for **Emerging Science, Technology, and Innovation Conclave (ESTIC-2025)** during **3rd to 5th November 2025** at Bharath Mandapam, New Delhi Conducted by **Department of Science & Technology, New Delhi**. Theme of the conclave is Imagine, Innovative, Inspire for Viksit Bharat 2047.

PhD Scholars:

S. No.	Student name and title details	Status
1.	Bangari Jaya (H. T. No: 225681501) Signal processing methods for performance enhancement of next generation wireless communication systems	Ongoing
2.	Korra Ravi Kumar (H. T. No.: 225681507) VLSI architecture processing-based communications	Ongoing

Other academic and Research Activities:

Editorial Board Member of Bulletin of Electrical Engineering and Informatics (SCOPUS)
Reviewer of various Refereed Journals IEEE Sensors Journal IET Signal Processing, Elsevier Biomedical Signal Processing and Control, Elsevier Signal Processing, Elsevier AEU International Journal of Electronics & Communications Engineering, Springer Wireless Personal Communications, Australian Journal of Electrical and Electronics Engineering
Reviewer and Technical Program committee member of Various IEEE International Conferences
Reviewer of best inspiring minds project of National Innovation Foundation, (INSPIRE-MANAK), Government of India for the year 2021, 2022, 2023 and 2024.
Regional Coordinator for Group-2 and Group-3 Examination for Bhadradi Kothagudem Region conducted by TGPSC, Hyderabad during Nov, Dec 2024.

Positions Held in University

Designation	College	Date of actual joining	
		From	To
In charge Head of ECE	KU College of Engineering & Technology, KU Campus, Warangal	09-08-2011	30-04-2014
In charge Examination		09-10-2011	30-04-2014
In charge Head of ECE	University College of Engineering & Technology for Women, KU Campus, Warangal	02-06-2014	08-09-2015
In charge Examination		02-06-2014	08-09-2015
In charge Library	University College of Engineering, KU, Kothagudem	09-12-2016	23-01-2023
Chairperson, Board of Studies in ECE, E&I Eng	Kakatiya University Warangal	Dec 2020	Jan 2023
In charge Examination	University College of Engineering, KU, Kothagudem	10-11-2022	Till date

(Dr. E. Hari Krishna)