



I. Krishna Rao

Associate Professor

Department of Electronics & communication Engineering

Raghu Engineering College,

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Interests: Instrumentation, Optical Communication, Embedded Systems.

Course Taught Previously

PG.

Digital Data Communications
Transducers and Signal Conditioning Circuits
Industrial Electronics

UG.

Electronic Devices and Circuits
Basic Electronic Devices & Circuits
Electronic Circuit Analysis
Pulse and Digital Circuits
Linear Digital and Integrated Circuits
Telecommunication Systems and Switching Networks
Electronics Measurements and Instrumentation
Television Engineering.
Communication Systems
Wireless Communication
Digital Data Communication
Analog Communication
Optical Communication
Satellite Communication
Biomedical Engineering
Cellular Mobile Communication
PCB design using ORCAD

Laboratories Handled

Electronic Devices Lab
Linear and Digital IC Applications Lab.
Pulse and Digital circuits Lab.

Electronic Circuit Analysis Lab.
Electronic Devices and Circuits Lab.
Digital Communications Lab
Analog Communications Lab.
Analog and Digital Communications Lab.
Digital & Analog Integrated Circuits Lab

Publications

International Journals

- “Method to Minimize Data Losses in Multistage Flip Flop” “Global Journal of Research in Electrical Engineering and Electronic Engineering, Nov. 2011.
- “Performance analysis of Multi Users Detectors for Synchronous DS-CDMA system” International Journal of Soft Computing and Engineering (IJSCE) Sept. 2012.
- “Design and Study of Propagation Models in Wireless Communications (GSM) using Free Space Path Loss Model and Hata-Okumura Model with GUI”, International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) ISSN 2278 –909X Issue: DEC 2013.
- “Design and Development of Physiological Signal Acquisition System”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875, Vol. 3, Issue 7, July 2014
- “Log Gabor Filter Based Feature Detection in Image Verification Application”, International Journal of Science and Research (IJSR), ISSN (Online): 2319-7064 Impact Factor (2012): 3.358, Volume 3 Issue 12, December 2014
- “Different Contrast Enhancement Techniques for Remote Sensing Images and their Comparison in Mat lab”, International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), ISSN 2278-6856, Volume 3, Issue 1, January – February 2014
- “Design of Frequency Domain Induced Polarization Equipment having Optimized Frequency of Signal Transmission”, Indian Journal of Science and Technology, Vol 9(6), DOI: 10.17485/ijst/2016/v9i6/85032, February 2016 SCOPUS
- “Human Posture Recognition Based on Tracking Data of Kinect Skeleton”, International Journal of Pure and Applied Mathematics, Volume 114 No. 7 2017, 305-313, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version) SCOPUS
- “Design of Induced Polarization Transmitter Using Microcontroller for Selection of Low Frequencies”, Jour of Adv Research in Dynamical & Control Systems, Vol. 9, No. 1, May 2017 SCOPUS
- “A novel system for signature authentication based on EMG signal”, Jour of Adv Research in Dynamical & Control Systems, Issue 18, Special issue 2017, ISSN 1943-023X, pages 174 – 183, SCOPUS
- Design of Fuzzy Controllers for Flexible Joint Robotic Manipulator

Conference Proceedings

- “Novel Method for Reduction of PAPR of MIMO-OFDM based on Non-Linear Conference on Companding Transform. “International Conference on Communication, Networking and Signal Processing (ICCNASP-2013)
- Optimization channel for cellular network using Multi hop Dynamic Channel Assignment “International Conference on Electronics and Communication Engineering, (ICCNASP-2011)
- Design of Induced Polarization Transmitter using Microcontroller for Selection of Low Frequencies, International Conference on Allied Electrical & Communication systems, Vignan University, Guntur, Andhra Pradesh and December 8-10, 2016. (ICA ECS-2016)
- Wavelet based classification of Finger movements with Machine Learning Classifier, 2022 IEEE Sponsored Second International Conference on Advances in Electrical Computing Communications and Sustainable Technologies (ICAECT 2022) held on 21-22 April 2022 at Shri Sankracharya Technical Campus, Bhilai Chattisgarh

Visit to outside institute/organization:

S. No	Institute Organization visited	Purpose of visit
1.	International Conference on Allied Electrical & Communication systems, Vignan University, Guntur, Andhra Pradesh and December 8-10, 2016. (ICA ECS-2016)	For presenting paper

Details of Workshops attended

S. No	Title of the Course	Place	Year	Duration
1	Micro controllers and its applications	GMRIT, Rajam	2008	2 days
2	Digital Communications and Signal Processing Concepts	VIIT Visakhapatnam	2008	2 days
3	Signal Processing techniques applied to image processing	VIIT Visakhapatnam	2011	2 days
4	Bio-signal processing & measurements and computing	Vignan University Guntur	2015	3 days
5	Application of Embedded Systems to Internet of Things	LENDI Institute of Engineering and Technology	2018	1 week

6	Embedded System Design on 8-bit Microcontrollers using KIEL Software	Anil Neerukonda Institute of Technology	2020	2 days
7	Fight Covid-19 using “IoT	Gayatri Vidya Parishad college of Engineering for Women	2020	5 days
8	Analog & Digital IC Design using CADENCE Design Flow	Raghu Engineering College	2022	03 days
9	Advances in Wireless Communications and Antenna Technologies for Space, Vehicular and Ground Applications	Raghu Engineering College	2023	

Details of FDP, s attended

S. No.	Title of the Course	Place	Year	Duration
1	Design Challenges in Deep Sub-Micron Technology	Raghu Engineering College	2019	2 weeks
2	Multi Carrier Modulation in Broadband Communication and Technology challenges in 5G	Raghu Engineering College	2020	2 days
3	Applied VLSI and Advanced Communications	Vasi Reddy Venkatadri Institute of Technology	2020	5 days
4	Recent Advances in Biomedical Applications and Communication Networks	GMR Institute of technology Rajam	2020	1 week
5	Machine learning in Real Time Embedded & IOT Applications	Raghu Engineering College	2022	10 days
6	Artificial Intelligence, Machine Learning and Deep Learning with MATLAB and SIMULINK	Raghu Engineering College	2022	02 days

Awards and Honours

- 1. Sastra Award for research Excellence at VIIT - (2015-16)**
- 2. Pratibha Award for performance excellence at VIIT- (2015-16)**
- 3. Visista Seva Puraskar Award at VIIT– Vista 2k17**

Memberships

Fellow membership of Institution of Engineers (India) (F- 120558-3)

Additional Responsibility

RESPONSIBILITIES WITHIN THE INSTITUTE:

1. Actively participated in the department project works.
2. Department extra circular activities coordinator.
3. Member of Grievance Cell at Raghu Engineering College
4. NSS coordinator at Raghu Engineering College