

FACULTY PROFILE

Name of the faculty G.RAMA KRISHNA

Department: Electronics and Communication Engineering

College: Gudlavalleru Engineering College

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Address for Communication

G.Rama Krishna

S/o G.venkateswara Rao

Bommuluru, Gudivada mandal

Krishna district-521301

Academic Qualifications

S. No	Name of the Degree (Starting from Ph.D to 10th Class)	University	Percentage of Marks/Grade	Specialization	Year of Pass
1	M.Tech	NIT Calicut	7.89	Signal Processing	2010
2	B.Tech	JNTUH	72.8	Electronics and Communication Engineering	2007
3	Intermediate	Board of secondary education	92.1	-	2003
4	SSC	-	83.7	-	2001

Professional Experience

S. No	Designation	Institution Name	Working Period	
			From	To
1	Assistant professor	Scient Institute of engineering and technology	June 2007	May 2008
2	Assistant professor	Gudlavalleru Engineering college	June 2010	Till date

Professional Body Membership

S. No	Name of the Professional body	Membership Number
1	Institution of Engineers	AM155945-4
2	IETE	F-503786

Papers Published in Journals No. :

1. G. Rama Krishna, G. Mani Kotaiah, K. Hanok, M. Ajay, G. Swami "FOOD SPOILAGE DETECTION AND ALERTING SYSTEM" International Research Journal of Modernization in Engineering Technology and Science Volume:05/Issue:04/April-2023.
2. G. Rama Krishna, M. Sai Sasi Priya, M. Venkata Manoj, P. Lakshmi Sivani, N. Janardhana Rao "Efficient Waste Management Using Automated Sorting Based On Colour And Thickness" International Journal Of Engineering In Advanced Research Science And Technology, Volume.03, IssueNo.02, April-2023
3. Ch. Bhavitha, D. Yuvaraju, B. Pavan Kumar, D. Giribabu, G. Rama Krishna " RF Tracking System for Assets Using IOT" International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 10 Issue IV Apr 2022.
4. L.Sai Vineela, G.Tarun Ravi Sankar, K.Nohan Prasanth, K.Vamsidhar, G.Rama Krishna, "Skin Cancer Detection Using Region Based Segmentation" IJISSET - International Journal of Innovative Science, Engineering & Technology, Vol. 6 Issue 4, April 2019.
5. Sanapathi Tharangini, Gurajala Rama Krishna "SKIN CANCER DETECTION USING PARTICLE SWARM OPTIMIZATION" IJCRT, Volume 6, Issue 2, April 2018, ISSN: 2320-2882
6. D.Sandhya Rani,G.Ramakrishna "Tri state Tone Reservation, PTS and Companding Approach Based Multilevel PAPR Reduction in DWT-OFDM System" IJRECE Vol-5, Issue-4. July - Aug, 2017

7. P.Venkatara rao, G.Rama krishna," Synchronization and channel estimation in higher order mimo ofdm systems" International Research Journal of Engineering and Technology (IRJET) , Volume: 03 Issue: 09 | Sep-2016
8. P.Prabhu justin, G.Rama krishna" Joint Beam Forming Power and Channel Allocation in Multi User and Multi Channel using Multiple Relay MIMO Cognitive Radio Networks" International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064, Volume 5 Issue 8, August 2016.
9. A.Siva parvathi and G.Rama krishna "A Novel based Cooperation and joint source- channel Transmission in wireless networks using LDPC," International journal of computer applications, volume 5,october 2014.
10. SK.Mastan and G.Rama krishna" IMPLEMENTATION OF POWER EFFICIENT RELAYING STRATEGY WITH HIGHER ORDER MODULATION USING MIMO SYSTEMS" International journal of computer applications,issue4, volume 5,september 2014.
11. R.sultana and G.Rama krishna"Digital Deliberation Boards and Signaling System in South Central Railways" International journal of computer applications, Volume 77 – No.12, September 2013.
12. K. Gafoor Raja, G. Ramakrishna" Wireless Control of Serpentine like Robot for Industrial Inspection and Surveillance" International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-2, Issue-3, July 2013
13. K.swarajya lakshmi, G.Rama krishna" optimization of FIR filter technique with BOOTH multiplier and delay buffer" Intenational journal of electronics and communications, vlo,21,november 2012
14. P.Lakshmi prasanna, G.Rama krishna" Diversity analysis in MIMO system using OSTBC " international journal of emerging technology & advanced engineering vol.2 issue-9,september 2012
15. N.B.S.Naveen, G.Rama krishna" Design and sinulation of multi channel UART for serial communication" International journal of Computer applications,(0975-8887), vol.52, august 2012.

Papers Published in Conferences No. :

1. Ramakrishna Gurajala, Praveen B. Choppala, James Stephen Meka, Paul D. Teal "A Fast and Unbiased Minimalistic Resampling Approach for the Particle Filter" IEEE International Conference on Signal and Image Processing Applications (ICSIPA), october 2021
2. Ramakrishna Gurajala, Praveen B. Choppala, James Stephen Meka, Paul D. Teal "A sorted weighting lookahead sampling scheme for accurate and fast particle filtering" 2nd International Conference on Range Technology (ICORT), august 2021
3. Ramakrishna Gurajala, Praveen B. Choppala, James Stephen Meka, Paul D. Teal "Derivation of the Kalman filter in a Bayesian filtering perspective" 2nd International Conference on Range Technology (ICORT), august 2021

4. K. jagadish kumar and G. Rama Krishna” IMPLEMENTATION OF A LOW COMPLEXITY REED SOLOMON DECODER FOR MODERN APPLICATIONS” International conference on information and communication technology, 18th February, 2012, Singapore.

Workshops Organized No. :

1. Two day training program on ARM7 applications and programming

Workshops /Conferences /Seminars Attended No. :

1. Three days national level webinar on “ Intellectual property rights & patents- A view” organized by Gudlavalleru engineering college during 10 to 12th august 2020.
2. One day national convention on Research trends in wireless communication technology on 29th July 2017
3. One week faculty development program on signal and image processing using LABVIEW on 13-18 november 2017
4. Two day staff training program on MATLAB tools for engineers-hands on experience on 10th and 11th January 2017
5. One day workshop on research in energy management wireless networks and smart transportation systems 29th march 2015
6. One day workshop on simulation of electronic circuits using LABVIEW 3rd february 2012
7. Two day ISTE workshop on Akash for Education 10-11 november 2012
8. One Week workshop on Training teachers for excellence 29-4 may 2013
9. Two week workshop on Analog Electronics 4-14 june 2013
10. Two week workshop on Signals and Systems 2-12 january 2014
11. Two day workshop on Issues in IC design 13-14 december 2013
12. Three day workshop on Theory & Applications of intelligent signal processing 28-2 march 2014
13. One day workshop on speech processing:current challenges and hands on experience 23rd august 2014
14. One day workshop on ultra low power communication using CC430 microcontrollers 7th february 2015

Certifications/Training Programs Attended No. :

1. One week online faculty development program on “IoT and Embedded systems” organized by NITTTR, Chandigarh during 23st to 27th September 2024.
2. One week online faculty development program on “Impact of AI: Robotics, VLSI and Medical domains ” organized by department of ECE, VVIT, during 22nd to 27th April 2024.

3. One week online faculty development program on “Recent advancements in sustainable energy sources research and development” organized by Karpagam academy, Coimbatore during 26th to 1st March 2024
4. Two week online faculty development program on “Applications of computer vision using Deep Learning” organized by Seshadri rao Gudlalleru engineering college during 21st to 26th august 2023.
5. One week online faculty development program on “IoT, Industry 4.0 and stress management” organized by Seshadri rao Gudlalleru engineering college during 17th to 22nd July 2023.
6. One week national level faculty development program on “Medical applications using machine learning & deep learning techniques” organized by viznan nirula institute of technology and science for women during 20th to 25th Febtuary 2023.
7. One-week national level faculty development program on “Applications of computer vision using Deep Learning” organized by E&ICT academy NIT Warangal and PSCMR college of engineering & Technology during 2 to 11th January 2023.
8. One week online faculty development program on “Trends in embedded systems and IoT” organized by Seshadri rao Gudlalleru engineering college during 20st to 25th June 2022.
9. One week refresher programme on “ Python programming for 5G communications” organized by MLR institute of technology during 14th to 22nd February 2022.
10. One week online induction program on “ Millimeter wave frequencies” organized by Seshadri rao Gudlalleru engineering college during 17th to 24th august 2021.
11. One week online short term training program on “ Blackchain architecture design and use cases Phase-III” organized by Seshadri rao Gudlalleru engineering college during 24th to 29th august 2020.
12. One week online short term training program on “ Blackchain architecture design and use cases Phse-II” organized by Seshadri rao Gudlalleru engineering college during 17th to 24th august 2020.
13. One week online short term training program on “ Blackchain architecture design and use cases Phse-I” organized by Seshadri rao Gudlalleru engineering college during 10th to 15th august 2020.
14. Five day faculty development program on “ creative opportunity to understand the consumer outrich” organized by Godavari institute of engineering and technology during 20th to 24th February 2020.
15. One week faculty development programme on “Machine learning applications in signal processing”, organized by E&ICT academy NIT Warangal from 4th to 9th February 2019.

16. Two day training program on “Design and development of digital circuits using VLSI tools”, organizes by Gudlavalleru engineering college from 6th to 7th December 2018.
17. One week faculty development program on “Communication and signal processing” on 29th October to 3rd November 2018
18. One week faculty development program on “Signal and image processing using LABVIEW” organized by Gudlavalleru engineering college on 13th to 18th November 2017
19. Two day faculty training program on “Advances in VLSI Design and Embedded systems” on 6-7 November 2017
20. Two day staff training program on " Simulation of Linear & Digital Integrated Circuits and Microcontroller based Applications" using NI Multisim organized by Department of Electronics and Communication Engineering, Gudlavalleru Engineering College, Gudlavalleru on 4-6 November 2016.
21. One week Faculty Development Programme (FDP) on “Development of Wireless Sensor Networks Simulator (NS2) – Hands on Experience”, organized by department of ECE, Gudlavalleru Engineering College, Gudlavalleru during 1st - 5th December 2015
22. One week refresher course on “Microprocessor & Microcontroller” organized by department of ECE, Gudlavalleru Engineering College, Gudlavalleru during 17th – 21st November 2015.
23. Two day Faculty Development Programme (FDP) on “Advanced Digital Signal Processing & Applications (ADSP-A)”, organized by V.R. Siddhartha Engineering College, Vijayawada, under TEQUIP-II during 12th -13th September 2015.
24. 2 day training programmin on digital image processing using MATLAB 20th & 21st June 2015
25. Faculty development program on vlsi and embedded system design 7-8 july 2012
26. One week refresher course on pulse and digital circuits 21-26 november 2011
27. One day training program on MATLAB, Simulink & Related tool boxes for engineering education
28. One week refresher course on Electronic decices and circuits 23-28 september 2013

Guest Lectures Delivered No. :

1. “Underwater wireless sensor networks: reseach challenges” for faculty at Gudlavalleru Engineering College, Gudlavalleru on March 2011.
2. Delivered a lecture on the topic “Small signal analysis of single stage amplifiers” as part of One week refresher course on “Electroni devices& Circuits (Theory & Lab Practice)” organized by department of ECE, Gudlavalleru Engineering College, Gudlavalleru.

Subjects Handled

Under Graduation

- Computer Networks
- Optical communication
- Electronic Devices and Circuits
- Electronic Circuit Analysis
- Microwave Engineering
- Linear IC Applications
- Signals and Systems
- Transmission lines and waveguides
- Digital communications
- Satellite communications
- Microwave and optical communications
- Analog and Digital communications
- Digital signal processing

Post Graduation

- Embedded System Design
- Internet Protocols
- Advanced Digital Signal processing
- Wireless Sensor Networks
- Optical communication networks

Laboratories Handled

Under Graduation

- Linear IC Applications Lab
- Electronic Devices & Circuits Lab
- EC&PDC lab
- Microwave and optical communication lab
- IC&PDC lab
- Electronic circuit analysis lab
- Electrical and Electronic lab
- ADC lab
- Signals and Systems Lab

Other Responsibilities

College Level

1. GENCES technical paper contest coordinator academic year 2014-15
2. GENCES technical paper contest coordinator academic year 2015-16
3. GENCES technical paper contest coordinator academic year 2016-17

Department Level

1. Alumni Coordinator academic year 2014-15, 2015-16,2016-17,2017-18,2018-19.
2. M.Tech PRC member for communication group
3. Lab incharge for Embedded system R&D laboratory
4. IE Faculty Advisor academic year 2012-13
5. First B.Tech Academic coordinator 2019-20, 2020-21, 2021-22, 2022-23, 2023-24, 2024-25.

Projects Guided

Under Graduation

S. No	Name of the project	Year
1	Fleet monitoring and speed control on arm	2010
2	Finger print based voting machine	2010
3	Multi purpose card using rfid technology for student information	2011
4	Ship detection with wireless sensor network	2013
5	A Novel Method of Image Restoration by using different types of Filtering Techniques	2014
6	A BID algorithm for blurred image restoration in the field of medical imaging	2015
7	Secure image transmission technique via secure-fragment-visible mosaic image and enhancing the visual quality	2017
8	Computer aided skin cancer detection	2018
9	Skin Cancer Detection Using Region Based Segmentation	2019
10	Skin Cancer Detection Using cluster Based Segmentation	2019
11	RF Tracking System for Assets Using IOT	2022
12	Efficient Waste Management Using Automated Sorting Based On Colour And Thickness	2023

13	Food Spoilage Detection And Alerting System	2023
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Post Graduation

S.No	Name of the project	Year
1	Implementation of a low complexity reed solomon decoder for modern applications	2012
2	<i>Optimization of FIR filter technique with BOOTH multiplier and delay buffer</i>	2012
3	Design and simulation of multi channel UART for serial communication	2012
4	Diversity analysis in MIMO system using OSTBC	2012
5	Digital Deliberation Boards and Signaling System in South Central Railways	2013
6	Implementation of power efficient relaying strategy with higher order modulation using mimo systems	2014
7	Wireless Control of Serpentine like Robot for Industrial Inspection and Surveillance	2013
8	Implementation of power efficient relaying strategy with higher order modulation using mimo systems	2014
9	A Novel based Cooperation and joint source-channel Transmission in wireless networks using LDPC,	2014
10	Joint Beam Forming Power and Channel Allocation in Multi User and Multi Channel using Multiple Relay MIMO Cognitive Radio Networks	2015
11	Synchronization and channel estimation in higher order mimo ofdm systems	2016
12	Tri state Tone Reservation, PTS and Companding Approach Based Multilevel PAPR Reduction in DWT-OFDM System	2017
13	skin cancer detection using particle swarm optimization	2018

Guiding Ph. D Students:NIL

University	Year of Registration	Area	Status
-	-	-	-

Books Published No. : 2

1. Electronics & Communication Engineering Laboratory Manual(ISBN-978-1-4276-5536-3)
2. Electronics & Communication Engineering Instructional Manual(ISBN-978-1-4276-5539-4)

R&D and Consultancy

S. No	Project Title	Source of Funding	Duration	Role	Status
1					
2					

Curriculum Design and Development

1. Analog circuits
2. Electronic Devices and Circuits
3. Analog circuits lab
4. Electronic devices and circuits lab
5. Advanced Digital signal processing
6. Multirate signal processing

Academic Rewards / Achievements: NIL

Extra Curricular Activities

1. Acted as BoS member for department of ECE, Gudlavalleru Engineering College, Gudlavalleru on 2nd August 2014 and 25th May 2015

Declaration

I hereby declare that all the above-furnished information is correct to the best of my knowledge.

Date:

Signature

Place:

(G.Rama krishna)