# FACULTY PROFILE

**S.BHAVANI**

Department: Electronics and Communication Engineering

College: Gudlavalleru Engineering College

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## Address for Communication

S.Bhavani,

D/o S.Raghava Raju,

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Janda chettu street, Vijayawada-11.

## Academic Qualifications

| S. No. | Name of the Degree | University | Percentage of Marks/Grade | Specialization | Year of Pass |
|--------|--------------------|------------|---------------------------|----------------|--------------|
| 1 | Ph.D. | Pondicherry University | | Antenna Engineering | Pursuing |
| 2 | M.Tech | J.N.T.U.K Kakinada | 79 | Digital Electronics and Communication Systems | 2012 |
| 3 | B.Tech | J.N.T.U.K Kakinada | 77 | Electronics and Communication Engineering | 2009 |
| 4 | Intermediate | Intermediate Board,A.P. | 92.7 | MPC | 2005 |
| 5 | S.S.C | Secondary School Education,A.P | 86.6 | --- | 2003 |

## Professional Experience

| S. No. | Designation | Institution Name | Working Period | |
|--------|-------------|------------------|------|------|
| | | | From | To |
| 1 | Assistant Professor | Gudlavalleru Engineering College, Gudlavalleru | 20-05-2013 | Till date |

**Professional Body Membership    --    IE**

**Papers Published in Journals No. :  --    08**

- ➢ S. Bhavani and T. Shanmuganantham," Analysis of Different Substrate Material on Wearable Antenna for ISM Band Applications", Advances in Communication Systems and Networks, Lecture Notes in Electrical Engineering 656, pp 753-762, © Springer Nature Singapore Pte Ltd. 2020

- ➢ Priyadarshini.V, V. Sreelakshmi, S.Bhavani ," Design and Analysis of Approximate Multipliers&quot;, International Journal of Review in Electronics  Communication Engineering(IJRECE), VOL. 6 ISSUE 4 (OCTOBER- DECEMBER 2018) ISSN: 2393-9028 (PRINT) |ISSN: 2348-2281 (ONLINE),December 2018[impact factor:4.305].

- ➢ L.Vedakumar, S.Bhavani, "Audio watermarking for digital image protection using source-channel coding", IJARCCE, Vol.5, September 2016.

- ➢ Ramya.P, Bhavani S, Priyadarshini.V, "An Improved Energy Efficient and Certificate Revocation Technique for Mobile Ad Hoc Networks", IEEE sponsored 4th International Conference on Communications, Signal Processing, Computing and Information Technologies (ICCSPCIT-2015), MRCET, December 18-19, 2015.

- ➢ S.Bhavani, B.Raviteja, **"**Noise Estimation based on Entropy without using VAD for Speech Enhancement", International Journal of Signal Processing, Image Processing and Pattern Recognition,  Vol.7, No.2 (2014), pp.355-364.

- ➢ S.Bhavani, Firdous "Secure Data Transmission through RDH", International Journal of Signal Processing, Image Processing and Pattern Recognition,   Vol. 7, No. 6 (2014), pp. 261-272.

- ➢ S.Bhavani, B.Raviteja "Reverse Data Hiding for Security Applications", International Journal of Computer application, Volume 106 – No. 14, November 2014.

- ➢ S.Bhavani, B.Raviteja "Compending of Reverse and Data Hiding", International Journal of Computer Science and Information Technology, Vol. 5 (6) , 2014, 7496-7500.

## Papers Presented in Conferences No. : 03

- ➢ S.Bhavani and T.Shanmuganantham, " Analysis of Different Substrate Material on Wearable Antenna for ISM band applications", International Conference on Communication Systems and Networks (ComNet2019), Organized by  Department of ECE, Mar Baselios College of Engineering & Technology, Nalanchira, Trivandrum in association with University of Dayton, Ohio, and **ISRO**, **Springer**, December 12-13, 2019.

- ➢ Ramya.P, Bhavani S, Priyadarshini.V, "An Improved Energy Efficient and Certificate Revocation Technique for Mobile Ad Hoc Networks", IEEE sponsored 4th

International Conference on Communications, Signal Processing, Computing and Information Technologies (ICCSPCIT-2015), MRCET, December 18-19, 2015.

➢ "Speech Enhancement Using Eigen Values", International Conference on Electronics, Communications and Information Systems, Kalasalingam University, Madurai, Nov2-3, 2013.

## Workshops Organized No. : NIL

## Workshops /Conferences /Seminars Attended No. : 10

1. Participated in one day workshop on "Women in Antenna Engineering" organized by Pondicherry University, on 7th March 2020.
2. Participated in 2 day national workshop on "Digital Signal Processors Architectures and Optimization Methodologies" organized by Dept of ECE at DVR & Dr. HS MIC College of Technology, Kanchikacherla, on 23rd & 25th September 2017.
3. Participated in 2 day national workshop on "Research Methodologies" organized by Dept of ECE at Ramachandra College of Engineering, Eluru, on 3rd & 4th February 2017.
4. Participated in 2 day national convention on "Recent Advances in Microwave, Antennas and Communications" organized by Dept of ECE in association with IE at P.V.P ,Vijayawada from 01-07-2016 to 02-07-2016.
5. One day Workshop on "Research in Energy Management Wireless Networks and Smart Transportation Systems" organized by the Institute of Engineers (IE), INDIA, Vijayawada local Center, Vijayawada on 29th March 2015.
6. One day workshop on "Ultra Low Power Communication Using CC430 Microcontroller – Hands on Experience", organized by the Department of Electronics and communication Engineering, Gudlavalleru Engineering College, Gudlavalleru on 09th February 2015.
7. One day workshop on "Speech Processing: Current Challenges and Hands-on Experience", organized by Signal Processing and Communication Research Group, Department of Electronics and Communication Engineering, Gudlavalleru Engineering College, Gudlavalleru on 23rd August 2014.
8. Three day National Workshop on "Theory & Applications of Intelligent Signal Processing", organized by department of ECE, Gudlavalleru Engineering College, Gudlavalleru during 28th February to 2nd March 2014.
9. Two day workshop on "Issues in Integrated Circuits (ICs) Design" organized by department of ECE, Gudlavalleru Engineering College, Gudlavalleru during 13th – 14th December 2013.
10. One week faculty refresher course on "Electronic Devices and Circuits" organized by department of ECE, Gudlavalleru Engineering College, Gudlavalleru during 23rd – 28th September 2013.

## Certifications/Training Programs Attended No. :  13

1. One week faculty development program on " Data Acquisition and RT using LabVIEW" organized by Dept of ECE in association with National Instruments, Bangalore, from 25th -30th February 2019.
2. Attended the Three Day training programme on "Advanced Development Tools Based IOT" organized by Department of ECE, Gudlavalleru Engineering College,Gudlavalleru from 11th-13th November 2019.
3. One week faculty development program on "Signal And Image Processing Using LABVIEW" organized by Dept of ECE in association with E&ICT Academy, NIT Warangal, from 4th -9th February 2019.
4. Participated in the one week national level Faculty Development Program (FDP) on "Signal & Image Processing using LABVIEW" organized by Department of Electronics and Communication Engineering in association with NI systems Pvt.Ltd., Gudlavalleru Engineering College, Gudlavalleru on 13th-18th November 2017.
5. Two day staff training program on" MATLAB Tools For Engineers- Hands on experience" conducted by NIT Warangal in association with Dept of ECE, GEC during 10th-11th January 2017.
6. Participated in the Faculty Development Program (FDP) on Hands on experience in ital Signal Processing  Applications" conducted by NIT Warangal in association with Dept of ECE, GEC during 07th -12th November 2016.
7. 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 4th-6th November 2016.
8. Participated in the Faculty Development Program (FDP) on "Hands-on-training on MATLAB for Digital Signal Processing (HAMDSP)" conducted by Dept of ECE,VJIT during 22nd-27th February 2016.
9. Participated in the Faculty Development Program (FDP) on "Development of Wireless Sensor Networks using Network Simulator (NS2)-Hands on Experience "organized by Communication Research Group in association with Vertex Soft, Hyderabad, and 1st -5th Dec 2015.
10. Attended a one week Refresher course on "Microprocessors and Micro Controllers" held during 17th -21st November 2015, at Gudlavalleru Engineering College organized by Research and Development Centre, Department of ECE.
11. Two week ISTE workshop on "Signals & Systems" conducted by IIT Kharagpur in association with department of ECE, Gudlavalleru Engineering College, Gudlavalleru during 2nd -12th January 2014 (This workshop was held under the national mission on education through ICT (MHRD)).
12. One week ISTE workshop on "Analog Electronics" conducted by IIT Kharagpur in association with department of ECE, Gudlavalleru Engineering College, Gudlavalleru during 4th -14th June 2013 (This workshop was held under the national mission on education through ICT (MHRD)).

13. One week training program on "Training Teachers for Excellence", organized by Gudlavalleru Engineering College, Gudlavalleru during 17<sup>th</sup>- 21<sup>st</sup> June 2013,conducted by Dr.B.G.Barki, Former Director, NITTTR, Chennai.

## Guest Lectures Delivered No. : NIL

## Online FDP/Webinars Attended: 25

1. Attended a AICTE Sponsored STTP conducted by Gudlavalleru Engineering College on "Blockchain Architecture Design and Use Cases" held during 10th to 15th August 2020.

2. Attended a webinar conducted by Gudlavalleru Engineering College on "Intellectual Property Rights & Patents - A View" held during 10th to 12th August 2020.

3. Participated in one week refresher course on "Embedded System Design" organized by Dept of ECE, GEC, from 27th July to 1st August, 2020.

4. Participated in one week online workshop on" Recent Trends & Research Scope in Antenna Domain" conducted by Vignan's Institute of Technology ,during 27th to 31st July,2020.

5. Actively participated in the International Webinar on "The study of End of life vehicles-The mode of Sustainable Development", conducted by University of College of Engineering kariovattam on 25th July 2020

6. Actively participated in the International Webinar on "Bio Medical Instrumentation: past, present & future", conducted by University of College of Engineering kariovattam on 24th July 2020

7. Actively participated in the International Webinar on "Digital transformation: Transforming the new Era", conducted by University of College of Engineering kariovattam on 24th July 2020

8. Actively participated in the International Webinar on " 3D printing: Trends & Opportunities", conducted by University of College of Engineering kariovattam on 23rd July 2020

9. Actively participated in the International Webinar on "Cognitive Radios: How to be catapulted towards 5G and beyond", conducted by University of College of Engineering kariovattam on 23rd July 2020

10. Actively participated in the International Webinar on "Technology & Innovation 2020", conducted by University of College of Engineering kariovattam on 22nd July 2020

11. Participated in one week online faculty Development Program on "Blended E-Learning", organized by Dept of CSE, JNTUK college of engineering, Vizayanagaram, from 6th July to 10th July, 2020.

12. Participated in the one week National level online FDP on "Research Challenges and Emerging trends in ECE", organized by dept of ECE, Ramachandra college of Engineering, from 27th May to 1st June 2020.

13. Participated in Five Days online faculty Development Program on "Recent Communication Tools & ITS Applications", organized by Dept of ECE, St. Martin's Engineering College, from 19th May to 23rd May, 2020.

14. Attended a oneweek International online Knowledge development program conducted by Gudlavalleru Engineering College on " Challenges and Advancements in the design of IOT , Embedded and VLSI systems: A Researchers View"held during8th to 13th June 2020.

15. Actively participated in online FDP on MATLAB & Simulink in Engineering Education organized by APSSDC from 10-06-2020 to 11-06-2020.

16. Participated in the 3 day International online FDP on "Technologies for Health" organized by Dept of ECE,GMR Institute of Technology ,AP, during 8th to 10th June,2020.

17. Participated in one week online faculty Development Program on "Role of Teachers in Quality Enhancement & Accreditation", organized by Dept of ECE, Santhiram Engineering College, from 5th June to 11th June, 2020.

18. Participated in the International webinar on "Research Proposal Writing" in association with IEEE CMRTC Student batch, CMR Technical campus, Hyderabad on 9th June 2020.

19. Attended a webinar conducted by Gudlavalleru Engineering College on "Impact of Covid in Engineering Education & Way forward " on 9th June 2020.

20. Participated in one week national level online FDP on "Recent trends in Communication & Wireless Networks", organized by Dept of ECE, Kits, from 05-06-2020 to 09-06-2020.

21. Participated in the webinar on "Writing an effective Research paper-Means and methods organized by Dept of CSE, CMR engineering college on 29th May 2020.

22. Attended a webinar conducted by Gudlavalleru Engineering College on "Radio Frequency Measurements for Cellular and Wireless Communication Systems" on 25th May 2020.

23. Successfully attended the IT live webinar on "HOW TO PREPARE A GOOD RESEARCH GRANT PROPOSAL?"Conducted by PSNA college of Engineering & Technology on May 20, 2020.

24. Participated in the 2 day online FDP on "Microstrip Antennas for Advanced Wireless Communications" organized by Dept of ECE,KALLAM HARINATH REDDY INSTITUTE OF TECHNOLOGY in association with IETE, FROM 15th to 16th May,2020.

25. Participated in one week online faculty Development Program on "Advanced Antenna Design Using HFSS", organized by Dept of ECE, Santhiram Engineering College, from 12th May to 15th May, 2020.

## Subjects Handled

### Under Graduation
- Optical Communications
-  Control Systems
- Microwave Devices and Circuits
- Linear and Digital IC Applications
- Pulse and Integrated Circuits
- Microwave and Optical Communications
- Digital Image Processing

### Post Graduation
- Image & Video Processing

## Labs Handled

### Under Graduation
- Digital Communications
- Microprocessor and Microcontroller

- IC Applications
- Basic electrical and Electronics
- Electronic Devices and Circuits
- Electronic Computer Aided Design
- IC&PDC
- Microwave Engineering

## Other Responsibilities

**College Level (in GEC)**          **--** Involved in GEC fest from 2014 on words

**Department Level (in GEC)**

- Feedback  Coordinator for the academic year 2013-14
- Class in charge for the academic year 2015-16
- Assistant editor for E-Pulse during 2014-15
- Various duties in NAAC and NBA

## Projects Guided

**Under Graduation**          **--**          **06**

**Post Graduation**          **--**          **02**

## Guiding Ph. D Students          **--**          **NIL**

## Books Published No. :          **--**          **04**

1. Co-author for chapter 5.2 titled "Microwave and Optical Communications Lab" of Electronics and Communication Engineering laboratory Manual series 2 with ISBN – 978-1-4276-5564-6 in the year 2016
2. Co-author for chapter 3.2 titled "Integrated Circuits Applications lab" of Electronics and Communication Engineering laboratory manual series with ISBN – 978-1-4276-5563-9 in the year 2016
3. Co-author for chapter 24 titled "Cellular and Mobile Communications" of Electronics and Communication Engineering Instructional manual with ISBN – 978-1-4276-5539-4 in the year 2015.
4. Co-author for chapter 3.2 titled "Pulse and Digital Circuits Lab" of Electronics and Communication Engineering laboratory Manual with ISBN – 978-1-4276-5536-3 in the year 2015.

## Curriculum Design and Development
- Control Systems

- Image and Video Processing

## Academic Rewards / Achievements

- ➢ Topper in Pondicherry University PhD entrance test 2019
- ➢ Qualified in GATE-2014 &16
- ➢ Qualified the UGC National Eligibility Test (NET) conducted on December, 2015

## CERTIFICATIONS: 04

1. Successfully Completed NPTEL certification course on "Digital Circuits" a 16 week course from July-November 2019 (top2%).
2. Successfully Completed NPTEL certification courses on "Electronic Modules For Industrial Applications using op-amp", a 8week course from Feb-April 2019 (topper).
3. Successfully Completed NPTEL certification course on "Analog Electronics", a 8week course from Jan-March 2019.
4. Successfully Completed NPTEL certification course on "Integrated Circuits, MOSFETs, OP-Amps and their Applications" ,a 12 week course from Jan-Apr 2018.

## Declaration

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

Date:                                                                     Signature

Place:  Gudlavalleru                                                     (S.Bhavani)