

Dr. Venkata Rao Chalumuri

Education

Jawaharlal Nehru Technological University, Kakinada, AP. <i>Doctor of Philosophy in Electronics and Communication Engineering with specialization in Wireless Communications</i>	2018
Andhra University College of Engineering, Visakhapatnam, AP. <i>Master of Technology in Radar and Microwave Engineering</i>	2008
SRKR Engineering College (A.U Affiliation) Bhimavaram, AP. <i>Bachelor of Engineering in Electronics and Communication Engineering</i>	1990

Experience

Sanketika Vidya Parishad Engineering College (A.U Affiliation) <i>Professor, IQAC Coordinator, ECAP(Academics) & Flipped Learning In-charge</i>	2024 – Present Visakhapatnam, India
GITAM Deemed to be University <i>Assistant Professor (Grade-I) Ratified-Permanent</i>	2008 – 2024 Visakhapatnam, India
Sanketika Vidya Parishad Engineering College (A.U Affiliation) <i>Assistant Professor</i>	2006 – 2008 Visakhapatnam, India
Excel Media, Dwarakanagar <i>Radio Frequency Engineer</i>	2001 – 2005 Visakhapatnam, India
SITA Electronics Private Ltd, HUDA Complex, Tarnaka <i>Service Engineer</i>	1991 – 1997 Hyderabad, India

Ph.D Guidance Details

GITAM University (Visakhapatnam) has recognized me as a Ph.D. guide and assigned two Ph.D. scholars (as per the UGC & GITAM University guidelines).

Skills

Software Skills: MATLAB and Simulink-2023b, MS Office, C language, Python

Expertise in:

- Multisim
- LabVIEW
- Tinkercad
- Tinkercad Arduino simulation
- SPICE
- LTspice
- A Wide Exposure in the Preparation of Documentation such as Detailed Project Reports, Vision Documents
- Motivational Speaker for the Students
- Mentor for Career Guidance and Counseling
- PSpice
- Tina-TI
- ANSYS
- Online learning platform utilization
- Mentorship
- Classroom management.

Administrative Skills:

- **Sanketika Vidya Parishad Engineering College**
 1. IQAC Coordinator
 2. ECAP(Academics) & Flipped Learning In-charge
 3. ECE Dept. Coordinator(Academics)

- **GITAM Deemed to be University**

1. NAAC criteria 4 In-charge
2. Research Coordinator of Dept. of ECE, GIT, GITAM University, Visakhapatnam, 2019-20
3. Course Coordinator for Satellite Communications, Dept. of ECE, GITAM Deemed to be University, Visakhapatnam, 2020-21
4. Hostel coordinator 2010-2012, 2018- 20
5. TEQIP Dept. Coordinator (Monitoring & Evaluation) from March 2012
6. Academic Monitoring Committee Chairman B.Tech(ECE) 2010-2011, 2018--2020
4. Anti-ragging Committee Member
5. Hospitality Committee Member for Conference organized by the Dept. of ECE
6. Transport committee Member for Conference organized by the Dept. of ECE
7. Organizing member for the 95th Annual Conference of The Indian Economic Association held at GITAM University, Visakhapatnam, December 2012
8. Proctorial Board Committee Member from June 2010-13
9. Assistant Chief for Centre for Distance Learning GITAM examinations in December 2018
10. Mentor for the students from 2021-2024

- **Sanketika Vidya Parishad Engineering College**

1. Organizing member for the National Conference “SAMMELAN 2K7” in Sanketika Vidya Parishad Engineering College (A.U Affiliation), Visakhapatnam, 2007

Publications

- [1] (2021). Analysis of Clipping Methods for PAPR reduction in 5G UFMC systems with Higher Order Modulation Schemes, *IEEE International Conference on Communication and Electronics Systems IEEE Explore*
- [2] (2019). Throughput and Fairness Optimal Scheduling for High Speed Cell Edge Users in LTE Networks, *International Journal of Innovative Technology and Exploring Engineering*
- [3] (2018). Comparative Study of Local Binary Pattern Variants and Retrieval in Presence of noise, *Cikitusi Journal for Multidisciplinary Research*
- [4] (2018). Comparative Study of Local Binary Pattern Variants and Retrieval in Presence of noise, *Zeichen Journal*
- [5] (2016). Teletraffic and Blocking Probability Estimation of OFDMA System, *Elsevier International Conference on Computational Modeling and Security, Science Direct*
- [6] (2016). Teletraffic Estimation of Various Cellular Systems (1G-4G), *International Journal of Scientific Development and Research*
- [7] (2016). Erlang Capacity Evaluation Procedure for 4G Cellular Communication systems under Co-Channel Interference, *International Journal of Advance Engineering and Research Development*
- [8] (2015). Performance Analysis of 4G (OFDMA), 3G, 2G and 1G Cellular Systems, *International Journal of Applied Engineering Research*
- [9] (2015). QoS Analysis of 3G & 4G Systems, *IEEE International Conference on Electrical, Electronics, Signals, Communication and Optimization IEEE Explore*
- [10] (2015). Comparative Study of Local Binary Pattern Variants and Retrieval in Presence of Noise, *National Conference on Advances in Engineering Research*
- [11] (2014). Carrier Allocation Algorithm for Blocking Probability of Cellular OFDMA, *National Conference on Wireless Communications & Sensor Networks*
- [12] (2012). Analysis of Frequency Reuse Concepts in GSM and CDMA Cellular Communication Systems, *National Conference on Computing Communication and Instrumentation*
- [13] (2012). Analysis of A Fixed Point Model in Ultra-wideband OFDM, *National Conference on Advances in Communication Technologies*
- [14] (2012). Investigation of Performance Analysis on Capacity for UMTS Cellular Network, *National Conference on Advances in Communication, Navigation & Computer Networks*
- [15] (2011). AMBA AHB Complaint NOR Memory Controller”, *National Conference on Advances in Communication, Navigation & Computer Networks*

- [16] (2011).2D Object Recognition for Machine Vision Application using FPGA, *National Conference on Emerging trends in VLSI, Embedded and Nano Technologies*
- [17] (2009).A New Image Segmentation Thresholding Technique for Precise Processing of Sector Scan SONAR images, *National Symposium on Acoustics (NSA)*
- [18] (2009).Conversion of Underwater 2D SONAR Images To 3D, *National Conference on Advances Signal Processing*
- [19] (2009).Segmentation of sonar images using adaptive thresholding method, IEEE INDICON, IEEE Explore
- [20] (2008).Investigation of Alternative Frequency Band(4to8GHz) to GNSS Radio Signals, *National Symposium on Instrumentation*

Accomplishments

- The **Paper Reviewer** for the National Conference on Advances in Communication Technologies(NCACT-19) was conducted and organized by the ECE Dept. GITAM University, Visakhapatnam
- The **Chair for Paper Presentations** of the National Conference on Advances in Communication Technologies(NCACT-19) was conducted and organized by the ECE Dept. GITAM University
- Guided Multiple B. Tech and M.Tech Projects
- **Examiner** for theory and practical examinations of Andhra University, Visakhapatnam, from 2006 to 2008
- External **Examiner** for practical examinations, of ANITS Engineering College (A.U Affiliation) Visakhapatnam, in 2007
- External **Examiner** for practical examinations of Gayatri Vidya Parishad College of Engineering (JNTUK Affiliation), Visakhapatnam, in 2018 & 2019
- Evaluated **Semester papers** for various subjects in ECE of Gayatri Vidya Parishad College of Engineering and Raghu Engineering College, Visakhapatnam
- Organizing member for the National Conference “SAMMELAN 2K7” in Sanketika Vidya Parishad Engineering College (A.U Affiliation), Visakhapatnam, 2007
- **Paper setter** for different subjects of **Reputed universities** like Andhra University, JNTU Kakinada, and other **private autonomous** engineering colleges in AP and Telangana states

NPTEL [SWAYAM: Ministry of Education-Govt. of India] Certification:

- Python for Data Science *Jul-Aug 2024*

Certification [Coursera]:

- SQL for Data Science *Mar 10, 2024*
- 5G for Everyone *Mar 09, 2024*
- Internet of Things: Communication Technologies *May 30, 2020*
- Machine Learning for All *May 31, 2020*
- Introduction to Satellite Communications *May 27, 2020*
- Introduction to Electronics *May 25, 2020*
- AI For Everyone *May 17, 2020*
- Wireless Communications for Everybody *May 16, 2020*
- Learning to Teach Online *Aug 19, 2020*
- Foundations of Virtual Instruction *Aug 12, 2020*
- University Teaching *Aug 10, 2020*

Talent Metrix [Certified Behavior and Mentoring Analyst]

- Style Analysis- DISC & Driving Forces (Behavior and Mentoring)

Membership in Professional Bodies

- Member of the International Association of Engineers (IAENG)-389508

Workshops/FDPs Attended

- [1] The online Course on Global Navigation Satellite Systems and Location-based Services was conducted by *ISRO-Indian Institute of Remote Sensing, Dehradun* from 21st February to 4th March 2022
- [2] Online Elementary FDP on Architecture and Technologies for 5G and Beyond Wireless Networks under AICTE Training And Learning (ATAL) Academy New Delhi conducted at *IIT (BHU) Varanasi* from 16th to 20th August 2021
- [3] Online Elementary FDP on RECENT ADVANCES IN SIGNAL PROCESSING under AICTE Training And Learning (ATAL) Academy New Delhi conducted at *Jawaharlal Nehru Technological University Kakinada* from 2nd to 6th August 2021
- [4] Online Elementary FDP on Global Navigation Satellite Systems under AICTE Training And Learning (ATAL) Academy New Delhi conducted at *Indian Institute of Information Technology Design and Manufacturing Kurnool* from 26th to 30th July 2021
- [5] Online FDP on Control Systems & Sensors Technology under AICTE Training And Learning (ATAL) Academy New Delhi conducted at *Manipal Institute of Technology* from 19th to 23rd January 2021
- [6] Online FDP on Global Navigation Satellite System (GNSS) under AICTE Training And Learning (ATAL) Academy New Delhi conducted at *National Institute of Technology Mizoram* from 18th to 22nd December 2020
- [7] Online (50 hrs/15 days) Faculty Development Program On Data Science & Its Applications In STEM conducted by *Andhra University College of Engineering (A), Andhra University and University Engineering College, Vizianagaram, JNTUK, Kakinada* in association with *APSCHE (Andhra Pradesh State Council of Higher Education)* from 7th to 21st September 2020
- [8] Short Term Course on RF & Millimeter-Wave Technologies under TEQIP-III organized by *Department of Electronics and Communication Engineering NIT Silchar & GUIST Guwahati, India*, 29th August to 2nd September 2020
- [9] Online Short-Term Course on Optimization & Statistical Models and Tools organized by *Department of Mathematics, NIT Jalandhar*, held at *Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India*, 26th to 30th August 2020
- [10] Online Short-Term Course on Applications of Machine Learning in the Advancements of Computer Science, under TEQIP-III organized by *Department of Computer Science, Dr. B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India*, 17th to 22nd August 2020
- [11] Online International Faculty Development Program on Technologies for Teaching-Learning Pedagogy Organized by the *Department of Electronics and Communication Engineering, GMR Institute of Technology, Rajam, AP, India*, 6th to 9th August 2020
- [12] Faculty Development Program on Productivity Tools for Teaching Enhancement organized by *GITAM University, Visakhapatnam, A.P, India, & Dhyanahitha Educational Society*, 20th, April to 3rd May 2020
- [13] Workshop on Advanced Computing using Matlab, under TEQIP-II, organized by *Department of Electronics and Communication Engineering, GIT, GITAM University, Visakhapatnam, A.P, India*, 25th to 27th February 2015
- [14] Workshop on Research Methodology, organized by *Department of Electronics and Electrical Engineering, GIT, GITAM University, Visakhapatnam, A.P, India*, 16th to 17th November 2013
- [15] Workshop on MATLAB & its Applications in Communications and Signal Processing, organized by *Department of Electronics and Communication Engineering, Andhra University, Visakhapatnam, A.P, India*, 12th to 13th November 2011
- [16] Workshop on Microwave Circuit Design using AWR-Microwave Office, *Department of Electronics and Communication Engineering, GITAM University, Visakhapatnam, A.P, India*, 4th to 5th March 2011
- [17] Workshop on Recent Advances in Data Mining & its Applications, organized by *Department of Statistics, Andhra University, Visakhapatnam, A.P, India*, 11th to 14th March 2011

- [18] Workshop on Advances in Signal and Image Processing, organized by *Department of Electronics and Communication Engineering, JNTU Kakinada, A.P, India, 25th to 26th February 2011*
- [19] Workshop on VLSI Design using Cadence Tools, *Department of Electronics and Communication Engineering, GITAM University, Visakhapatnam, A.P, India, 22nd to 24th October 2010*
- [20] Attended a two-day Faculty Development Programme conducted by **CORPORATE FOCUS**, Visakhapatnam, organized by *Sanketika Vidya Parishad Engineering College, Visakhapatnam, A.P, India, 28th to 29th November 2008*

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