

Dr.Venkata Rama Krishna Tottempudi

Education

Jawaharlal Nehru Technological University, Kakinada, AP. <i>Doctor of Philosophy in Antenna Measurement Techniques (Serrated CATR)</i>	May 2011
PSG College Of Technology (Autonomous Institution), Coimbatore, TN. <i>Master of Engineering in Communication Systems</i>	2000 8.05 CGPA
V.R Siddhartha Engineering College, Vijayawada, AP. <i>Bachelor of Technology in Electronics and Communication Engineering</i>	1997 72.1%
A.A.N.M & V.V.R.S.R Polytechnic, Gudalavalleru, Krishna, AP. <i>Diploma in Electronics and Communication Engineering</i>	1992 86.15%
S.V.N.A High School, Chatragadda, Bapatla, AP. <i>Secondary Education</i>	1988 71%

Experience

Sanketika Vidya Parishad Engineering College <i>Professor, Dean Academics & Principal</i>	Feb 2024 – Present Vishkapatnam, India
Bharat Institute of Engineering and Technology <i>Professor, Dean Academics & Principal</i>	Apr 2023 – Jan 2024 Hyderabad, India
Sasi Institute of Technology and Engineering <i>Professor, IQAC Coordinator(NBA),Naac Coordinator, Dean Academics & Principal</i>	Jan 2021 – Mar 2023 Tadepalligudem, India
Koneru Lakshmaiah Education Foundation (Deemed to be University) <i>Professor, Associate Dean (Academics) & Director(eResources) Associate Dean (Library Recourses & Technical Services and Certificate Courses)</i>	Jul 2011 – Oct 2020 Guntur, India
Koneru Lakshmaiah College of Engineering <i>Associate Professor</i>	Dec 2005 - May 2011 Guntur, India
R.V.R & J.C College of Engineering <i>Assitant Professor & Associate Professor</i>	Jul 2000 - Dec 2005 Guntur, India
AANM & VVRSR Polytechnic <i>Lectuer</i>	Aug 1997 - May 1998 Gudlavalleru, India

Ph.D Guidance Details

No of Ph.D Awarded : 5

Scholar Details	Supervisor / Co-Supervisor	Title of the Thesis	Awarded in	University
Mr C Srinivas Preetham Reddy	Dr T V Rama Krishna	Spectrum management and cooperation between primary and secondary users in hybrid overlay/underlay cognitive Radio Networks	18-08-2018	KLEF University
Mr. M S S Srinivas	Dr T V Rama Krishna	Design and Development of EBG structured compact antenna for wireless communication	30-07-2020	KLEF University
Mr. M Venkateswara Rao	Dr T V Rama Krishna	An improved performance of networks on chip architecture by using congestion control and load distribution algorithm	12-07-2021	KLEF University
Mr. A Raghava Raju	Dr T V Rama Krishna	A Novel Study on Electromagnetic Band Gap structured Antennas with Artificial Magnetic Ground Plane	20-05-2022	KLEF University
Mr. Mahesh Babu Kota	Dr T V Rama Krishna	Design and Analysis of Annular ring Based Patch Antennas for wireless Communication	27-08-2022	KLEF University

Skills

Software Skills: Matlab 2023b with Toolboxes and Blocksets, Mathematica with modules, Maplen 16.01, Mathcad 15.

Expertise in :

- CST DESIGN SUITE 2024
- ANSYS ELECTRONIC DISKTOP 2024
- COMSOL MULTIPHYSICS 6.3
- AGILENT EMPRO2024
- AGILENT ADVANCED DESIGN SYSTEM 2024
- AGILENT GENESYS 2024
- AGILENT SYSTEMVUE 2024
- SONNET
- EMCOS
- EMSS FEKO 7.2
- RECOM XFDTD
- PCCAD
- AWR DESIGN ENVIRONMENTS 2022
- NI Multisim
- NI LabVIEW

Administrative Skills:

- **Sanketika Vidya Parishad Engineering College**
 1. Principal
 2. Dean Academics
 3. Ratified Professor and Principal from AU
- **Bharat Institute of Engineering and Technology**
 1. Dean Academics
 2. Ratified Principal from JNTU, Hyderabad
- **Sasi Institute of Technology and Engineering**
 1. Principal
 2. Ratified Professor from JNTUK, Kakinada
 3. Dean Academics
 4. NAAC Coordinator
 5. NBA coordinator
 6. Governing Body member (Statuary Body of UGC)
 7. Academic Council Member Secretary (Statuary Body of UGC)
 8. BoS member (Statuary Body of UGC)
 9. Finance Committee Coordinator (Statuary Body of UGC)
 10. Planning & Development Committee Coordinator
- **KLCE/KLEF University**
 1. Associate Dean Academics
 2. Associate Dean Library Recourses & Technical Services and Certificate Courses
 3. Director eResources
 4. Certificate Course Professor in-charge
 5. Central Library Professor in-charge
 6. Academic Council Member(Statuary Body of UGC)
 7. BoS member (Statuary Body of UGC)
- **R.V.R & J.C College of Engineering**
 1. NBA Criteria 7 in-charge

Publications




Details of Research Publications		
Scopus	SCI (Science Citation Index Expanded)	Total
49	2	87

- [1]] (2022).**Bandwidth Enhancement of Circular Wheel Slot Antenna for GPS, WLAN and C-Band Applications** *Communication, Software and Networks - Springer, Singapore*
- [2]] (2022).**Koch Fractal Iterations Based T-Patch Antenna for Low Giga Hertz and Wireless Applications** *International RF and Microwave Conference, RFM - IEEE*
- [3]] (2021).**Circular Monopole Electromagnetic Band Gap Structured Antenna SLOptimization using Heuristic** *Journal of Physics: Conference Series*
- [4]] (2020).**Design of a Quad-Band Annular Ring-Loaded Circular Patch Antenna with Meander Line Slot and DGS for Wireless Applications** *Microelectronics, Electromagnetics and Telecommunications - Springer, Singapore*
- [5]] (2020).**Dual Annular Ring Coupled Stacked Psi Shape Patch Antenna for Wireless Applications** *International Journal of Advanced Computer Science and Applications(IJACSA)*
- [6]] (2020).**Design and Performance Evaluation of D-Flip-Flop using Various Technology Nodes** *International Journal of Emerging Trends in Engineering Research*

- [7]] (2020).**Design of MEMS-based Microfluidic Channel to Detect Cancer Cells in Blood** *International Journal of Research in Pharmaceutical Sciences*
- [8]] (2020).**UWB Antenna Design with Required Band Suppression Characteristics For Cognitive Radio Applications** *Test Engineering & Management*
- [9]] (2020).**Implementation of Efficient 2-4 and 4-16 decoders using Gdi Technique** *International Journal of Advanced Science and Technology*
- [10]] (2020).**Design a Tri-Band Hexagonal Patch Antenna for Wireless Applications** *Energy Systems, Drives and Automations - Springer, Singapore*
- [11]] (2020).**Design Analysis and Performance Evaluation of Annulus Patch Antennas** *International Journal of Recent Technology and Engineering (IJRTE)*
- [12]] (2020).**A compact UWB microstrip antenna with hexagonal circular patch and asymmetric CPW-fed for on-body applications** *International Journal of Emerging Trends in Engineering Research*
- [13]] (2019).**Electromechanical and RF performance analysis of MEMS shunt configuration Switch,** *International Journal of Emerging Trends in Engineering Research*
- [14]] (2019).**Gain Enhancement Modelling of Coplanar Waveguide Fed Circular Monopole Antenna with EBG Placement** *International Journal of Engineering and Advanced Technology (IJEAT)*
- [15]] (2019).**Design and Study of a CPW Fed Truncated Circular Patch Switchable Band-Notched UWB Antenna** *International Journal of Recent Technology and Engineering (IJRTE)*
- [16]] (2019).**Electromagnetic Bandgap Structured CPW Fed Circular Monopole Antenna with Bandwidth Enhancement for Wideband Applicatio** *International Journal of Innovative Technology and Exploring Engineering(IJITEE)*
- [17]] (2019).**Hybrid Overlay/Underlay Transmission : An Efficient Mechanism to Encourage Primary Users to Cooperate With Secondary Users** *Electronics and Communications Engineering: Applications and Innovations (1st ed.). Apple Academic Press*
- [18]] (2019).**A novel study on EBG structured CPW- fed CoM antenna for WiMAX, WLAN applications** *International Conference on Advances in Computing and Communication Engineering (ICACCE)*
- [19]] (2019).**Micro strip Antenna Design for Low Power Cognitive Radio Applications** *International Journal of Recent Technology and Engineering (IJRTE)*
- [20]] (2019).**Investigation on EBG structured CPW fed CM antenna for WiMAX, WLAN applications** *International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTECoN)*
- [21]] (2019).**Planar Monopole Antenna with Compact EBG For Wireless Body Area Network (WBAN) Applications** *International Journal of Recent Technology and Engineering (IJRTE)*
- [22]] (2018).**Coaxial fed multilayered U-slot defected ground structured antenna for medical and wireless applications** *International Journal on Pharmaceutical Research*
- [23]] (2019).**Low latency path aware XY-X routing algorithm for NoC architectures** *International Journal of Engineering and Technology(UAE)*
- [24]] (2018).**Electromagnetic Bandgap Structured CPW Fed Circular Monopole Antenna with Bandwidth Enhancement for Wideband Applications** *International Journal of Engineering & Technology(UAE)*
- [25]] (2018).**Wideband defected ground structured monopole antenna with electromagnetic band gap loading** *Journal of Engineering and Applied Sciences*
- [26]] (2018).**An efficient algorithm for congestion control and load distribution in NOC environment** *Journal of Advanced Research in Dynamical and Control Systems*
- [27]] (2018).**Design of a low power D-FF using DMTGDI logic** *Journal of Advanced Research in Dynamical and Control Systems*
- [28]] (2018).**SRR loaded half -mode substrate integrated waveguide monopole slot antenna for multiband applications** *International Journal of Engineering and Technology(UAE)*
- [29]] (2018).**An Effective Energy Management System for Smart Office Cubicles using IoT** *Journal of Advanced Research in Dynamical and Control Systems*
- [30]] (2018).**Dual-Band-Notched CPW-Fed Antennas with WiMAX/WLAN Rejection for UWB Communication** *Microelectronics, Electromagnetics and Telecommunications - Springer, Singapore*
- [31]] (2018).**Design of CPW fed f-shaped circularly polarized antenna for amateur radio vehicular communications** *International Journal of Engineering & Technology(UAE)*
- [32]] (2018).**Multiband Semicircular Planar Monopole Antenna with Spiral Artificial Magnetic Conductor** *Microelectronics, Electromagnetics and Telecommunications - Springer, Singapore*
- [33]] (2017).**Frequency reconfigurable antenna for Ku-band applications** *ARPJN Journal of Engineering and Applied Sciences*
- [34]] (2017).**Liquid crystal polymer based optimized notch band monopole antenna** *Rasayan J. Chem*
- [35]] (2017).**Frequency-Selective Surface-Based Wideband High-Gain Antenna** *Smart Computing and Informatics - Springer, Singapore*
- [36]] (2017).**Liquid Crystal Polymer Based Compact CPW Fed Dual Band Antenna for Automotive Applications** *Journal of Advanced Research in Dynamical and Control Systems*

- [37] (2016). **Compact fractal monopole antenna with defected ground structure for wide band applications** *Journal of Theoretical and Applied Information Technology*
- [38] (2016). **Hybrid Overlay/Underlay Transmission: An Efficient Mechanism to Encourage Primary Users to Cooperate with Secondary Users** *Proceedings recent advances in communication and electronics engineering (RACEE)*
- [39] (2016). **33. Microstrip Line Fed Leaky Wave Antenna with Shorting Vias for Wideband Systems** *International Journal of Electrical and Computer Engineering (IJECE)*
- [40] (2016). **34. An effective on-chip network topology for Network on Chip (NoC) trade-offs** *Indian Journal of Science and Technology*
- [41] (2016). **35. Hybrid Overlay/Underlay Transmission with Partial and Opportunistic Relay Selection in Cognitive Radio Networks** *Indian Journal of Science and Technology*
- [42] (2016). **36. Strip Loaded Closed Loop Resonator Based Multiband Defected Ground Structured Antenna** *Journal of Engineering and Applied Sciences*
- [43] (2016). **37. Bandwidth enhanced electromagnetic bandgap structure structured closed ground monopole antenna** *Leonardo Electronic Journal of Practices and Technologies* tems.
- [44] (2016). **38. Analysis of outage probability, throughput in hybrid cognitive radio networks with and without transceiver impairments** *ARPJ Journal of Engineering and Applied Sciences*
- [45] (2015). **39. A CPW-Fed slotted monopole antenna for X-band applications** *International Conference on Electromagnetic Interference and Compatibility (INCEMIC)*
- [46] (2015). **Triple band linearly polarized square slotted microstrip antenna for X-band applications** *Far East Journal of Electronics and Communications*
- [47] (2015). **Novel miniaturized wide band annular slot monopole antenna** *Far East Journal of Electronics and Communications*
- [48] (2015). **BIST Architecture For Digital System Using CA-LFSR And MSIC Test Pattern Generators** *International Journal of Applied Engineering Research*
- [49] (2015). **Design and implementation of a low power comparator circuit using reversible logic technology on FPGA** *International Journal of Applied Engineering Research*
- [50] (2015). **Design of Sensible Voltage and Current References In CMOS Process Technologies** *International Journal of Applied Engineering Research*
- [51] (2015). **A novel compact CPW fed slot antenna with EBG structure** *ARPJ Journal of Engineering and Applied Sciences*
- [52] (2014). **A Frame work on AMBA bus based Communication Architecture to improve the Real Time Computing Performance in MPSoC** *International Journal of Computer Applications*
- [53] (2014). **Design of dual director short back fire antenna for UWB applicatios** *International Conference on Devices, Circuits and Systems (ICDCS)*
- [54] (2014). **Design of Dual Director Short Back Fire Antenna for UWB Applications** *International Conference on Devices, Circuits and Systems (ICDCS)*
- [55] (2013). **Exponential Multiband Serrated Microstrip Antenna on LCP Substrate** *International Conference on Advanced Research in Engineering and Technology (ICARET)*
- [56] (2013). **Viability of Convex Modulated Exponential Serrations for Improved Performance of CATRs** *International Journal of Emerging Trends in Engineering Research*
- [57] (2013). **High Speed Carry Select Adder for ALU Blocks** *International Journal of Engineering and Technology (IJET)*
- [58] (2013). **Compact Microstrip Defected Ground Structured Antenna for Reduction of Harmonics and Cross Polarized Radiations** *Antenna Measurement Techniques Association*
- [59] (2013). **Performance of Wilkinson Power Divider with Microstrip Electromagnetic Bandgap** *CiiT International Journal of Networking and Communication Engineering*
- [60] (2013). **Viability of Super Hybrid Modulated Serrations for Improved Performance of CATRs** *International Journal of Emerging Trends in Engineering Research*
- [61] (2012). **Analysis of Dual Band Pyramidal Serrated Antenna** *International Journal of Engineering Research and Applications (IJERA)*
- [62] (2012). **Near and Far field radiation characterization of super hybrid shaped Microstrip Antenna** *International Journal of Innovative Technology & Creative Engineering*
- [63] (2012). **Design and Analysis of Narrow Inserted T – Shaped and Fan-Wing Shaped Slot Patch Antenna** *International Journal Of Advanced Scientific Research And Technology*
- [64] (2012). **Analysis of slow Fading in wireless Communication Channels,** *International Journal of Advances in Science and Technology*
- [65] (2012). **Slotted Multiband Antenna for Wireless Communication Applications** *International Journal of Computer Science & Applications*
- [66] (2012). **Comparison and performance evaluation of different adaptive beam forming algorithms in wireless communications with smart antenna** *International Journal of Engineering Research and Applications (IJERA)*

- [67]] (2012).Performance of Broad band Log Periodic Planner 2-petal and 4-petal sinuous antennas *GJCAT*
- [68]] (2012).Comparative Analysis of Gap-Fed and Microstrip- Fed Antennas for Ham Radio Application *International Journal of Emerging trends in Engineering and Development*
- [69]] (2012).Performance Evaluation of Dielectric Slab Waveguides *A.P. Science Congress*
- [70]] (2012).Performance of Coaxial to Waveguide adaptors *A.P. Science Congress*
- [71]] (2011).Impedance Mismatching Effects on the Performance of the Rectangular Patch Antenna at Millimeter- Wave Applications *International Journal of Advances in Science and Technology*
- [72]] (2011).Square Pin Toothed Microstrip Patch Antenna for C, X and Ku band Applications *International Transactions on Electrical, Electronics and Communication Engineering*
- [73]] (2010).Assessment of HMDS Concave Triangular Serrated CATRs by Changing Number of Serrations *International Journal of Systems and Technologies*
- [74]] (2008).Hybrid Modulated Double Segmented Convex Triangular Serrations for Improved Performance of Compact Antenna Test Range Reflectors *International journal of Microwave and Optical Technology*
- [75]] (2008).Staircase type serrations for improved performance of compact antenna test range reflector using physical optical solution, *AP Science Congress, Emerging trends in Science and Technology*
- [76]] (2008).Performance analysis of CATR reflector with super hybrid modulated serrated edge, *International Conference on Emerging Technologies and Applications in Engineering, Technology and Science*
- [77]] (2008).Theoretical' and Numerical Treatment of Diffraction Through a Circular Aperture using Lommels Solution *International Conference on RF and Signal Processing Systems (RSPS)*
- [78]] (2008).Analysis of Parabolic Serrated edge reflectors employed in Compact Antenna Test Ranges *National Conference on Optical and Wireless Communication (NCOW)*
- [79]] (2008).Overview on Near-field antenna measurements for far-field radiation *International Conference on Sensors, Signal Processing, Communication, Control and Instrumentation (SSPCCIN)*
- [80]] (2008).Performance Comparison between Nonidentical Segmented Exponential Concave and Nonidentical Segmented Exponential Convex Serrated CATRs *International Journal of Antennas and Propagation*
- [81]] (2007).Performance Analysis of CATR Reflector with Super Hybrid Modulated Segmented Exponential Serrated Edges *World Academy of Science, Engineering and Technology*
- [82]] (2007).Performance comparison between Hybrid and Super hybrid serrated CATRs *Antenna Measurement Techniques Association 2007*
- [83]] (2007).Performance analysis of CATR reflector with segmented triangular serrated edges *International Conference on Information and Communication Technology in Electrical Sciences (ICTES)*
- [84]] (2006).Antenna measurements: A comparison of Triangular On-Off serrated CATR, Trapezoidal On-Off serrated CATR techniques, *International Conference on Wireless Communication & Sensor Networks*
- [85]] (2006).The prediction of the 1DFresnel diffraction pattern of CATR with rectangular aperture from single slit using numerical calculation *National Conference on Advanced Communication Technologies*
- [86]] (2005).Security Comparison: Bluetooth vs. 802.11 *CISCON2005*
- [87]] (2004).performance Comparison between HMCE & IMCE Serrated CATRs *Topics in Electromagnetic Waves Devices, Effects and Applications*

AD Scientific Index		Rankings for Scientist		World Scientist and University Rankings 2022			
		University, Subject, Country, Region, World		K L University			
		Venkata Rama Krishna Tottempudi					
		In K L University (101)	In India (32661)	In Asia (177910)	World (840126)		
		Scores	Rankings				
	Total H	12	#52	#18513	#110718	#547478	
	Last 5 year H	11	#45	#16238	#97431	#449416	
	Last 5 year H / total H	0.917					
	Total i10	14	#55	#18944	#113276	#562734	
	Last 5 years i10	11	#50	#17270	#104152	#485658	
	Last 5 years i10 / Total i10	0.786					
	Total Citation	598	#49	#18777	#118146	#634718	
	Last 5 years Citation	371	#57	#19444	#122788	#621271	
	Last 5 years Citation / Total Citation	0.620					
	Engineering & Technology *		#22 (50) *	#5713 (9556) *	#34581 (49060) *	#103229 (142958) *	
	Electrical & Electronic Engineering *		#8 (15) *	#829 (1507) *	#5072 (7092) *	#14316 (19307) *	

www.adscientificindex.com

Books Published

Antenna Measurement Techniques: CATR with different serrated reflectors

Lambert Academic Publishing

ISBN-13:978-3-8473-7135-9

Research Grants and Funding

Expendable Transmitters and Revivers

Defence Electronics Research Lab, (DLRL), DRDO

Amount : 4.50

Theoretical studies on Phased arrays for Satellite link

Defence Electronics Applications Lab, (DEAL), DRDO

Amount : 8.50

Radome Design

RPS(AICTE), New Delhi

Amount : 5.82

Design for Optimization of Phased Array Antennas

UGC, New Delhi

Amount : 10.30

Design feasibility study for a single directional antenna for L and S bands

ISRO, Bangalore

Amount : 13.01

Harmonic Analysis of Communication Receivers

Defense Electronics Research Lab, (DLRL), DRDO

Amount : 8.30

Patents

Synthesis Of BaTiO₃ From Barite Ores For Micro Strip Antenna Applications

Application No. : 201941013896

Field : Electronics

Color Image Detection Device

Design No. : 400783-001

Memberships in Professional Bodies

Institution of Electronics and Telecommunication Engineers (IETE)

Life member - LM- 183812

India

Indian Society for Technical Education (ISTE)

Life member - LM-52931

India

Society of EMC (SEMCEI)

Life member - LM-905

India

Institution of Engineers (IE)

Life member - LM-140318-9

India

Cryptology Research Society of India (CRSI)

Life member - L/M: 293

India

Instrument Society of India (ISI)

Life member - LM-1802

India

Bio-Medical Engineering Society of India (BMESI)

Life member - LM-922

India

Achievements

Awards and Recognitions

2007

Best Teacher Award

KLCE

- Recognized for exceptional teaching and dedication to student success, demonstrating excellence in educational delivery and a significant positive impact on the academic community.

National Level Workshop on Scientometric Tools and Techniques for Research Analysis

Sept 2014

Convenor

KLEF University

- Led the organization and coordination of a national workshop focused on the application of scientometric tools and techniques for research analysis.
- Oversaw all aspects of the event, including planning, execution, and post-event evaluation

National Level Workshop on Intellectual Property Rights and Scholarly Publishing Tools

April 2015

Convenor

KLEF University

- Organized and led a national workshop focusing on Intellectual Property Rights (IPR) and scholarly publishing tools.
- The workshop aimed to enhance participants' understanding of IPR issues and improve research quality through effective publication strategies
- Facilitated discussions on best practices for research documentation and intellectual property management, contributing to the advancement of high-quality research outputs.