


KAKUMANU NAGA RAJU

Name of the Faculty:		Kakumanu Naga Raju				
Designation:		Assistant Professor				
Department:		Electronics and Communication Engineering				
Date of Birth:		09/11/1990				
AICTE – ID:						
Education		<ul style="list-style-type: none"> B.Tech in Electronics and Communication Engineering from Jawaharlal Nehru Technological University, Kakinada in 2012 M.Tech in Communication Engineering and Signal Processing from Acharya Nagarjuna University in 2014 PhD in Information and Communication Engineering from Anna University (Thesis submitted) 				
Experience		Teaching: 6.5 Years	Industry: ____ Years	Total: 9.5 Years		
		Research: 3 Years	Others: ____ Years			
Research Specialization		Design and Performance analysis of Metamaterials incorporated microstrip antennas for 5G wireless applications.				
Courses taught		<ol style="list-style-type: none"> 1. Antennas and Wave Propagation 2. Data structures 3. Object Oriented Programming 4. Machine Learning 				
Research contributions						
International/national peer reviewed journals						
S. No.	Title of paper	Journal	Year	Volume	pages	Indexing SCI/WoS/ SCOPUS, Google scholar)
1	Sub-6GHz and Circularly Polarized mm-wave DNG-CMM Tri-patch MIMO Radiator for 5G Applications	International Journal of Electronics	2024	Accepted		SCI
2	A Survey on 5G Spectrum and Design of Microstrip Antennas for 5G Wireless Networks	Tuijin Jishu / Journal of Propulsion	2024	45	4875 – 4883	SCOPUS

		Technology				
3	Linear Phased Metamaterial Incorporated Patch Antenna Array at 28 GHz for 5G Base Stations	C. R. Acad. Bulg. Sci	2024	77	246–255	SCI
4.	Linear Phased Metamaterial incorporated Patch antenna array at sub-6 GHz for 5G Base Stations	International Journal of Electronics	2023			SCI
5.	Design and performance analysis of miniaturized dual-band micro-strip antenna loaded with double negative meta-materials	Microsyst Technol	2023	29		SCI
6.	A Rectangle Novel Multiband Patch Antenna For Satellite Applications	journal of emerging technology and innovative research	2020	7		Google scholar
7.	Mushroom Structure Micro strip Antenna Array for Ku band Applications	journal of emerging technology and innovative research	2020	7		Google scholar
8.	Investigations on Radiation Characteristics of Rectangular Microstrip Patch Antenna	IJAEM Journal	2016	5		Google scholar
9.	Computational studies on Rectangular micro strip patch antenna	International journal of Electronics and communications and computer Engineering	2014	5		Google scholar
10.	Halloween Structured Microstrip MIMO Radiator at 5G sub-6GHz and mm-wave Frequencies	International Conference on the Paradigm Shifts in Communication, Embedded Systems, Machine Learning and Signal Processing (PCEMS- 2023) (IEEE)	2023		1-8	Scopus
11.	On the Notch band	International	2018			Google

	Characteristics of CPW Fed Elliptical Slot Antenna	Conference SCI-2018 on SMART COMPUTING AND INFORMATICS(S CI-2018)				scholar
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Books published

S. No.	Title of the book	Publisher	year
1			

Book chapters Published

S.No.	Title of the Chapter	Book title	Publisher	year
1	Design and Performance analysis of UWB Microstrip Antennas for 5G and Beyond Wireless Applications	Radio Frequency and Microwave Design for Next-Generation wireless Applications	CRC Press, Taylor & Francis Group	Accepted

Details of Patents (Filed & Granted)

S. No.	Applications number	Title of the patent	Date of filing/publishing	Published/granted
1	202441010834 A	A Novel 28/38 GHz Compact MIMO Antenna For 5G MM-Wave Cellular Applications	08/03/2024	Published
2.	202441010865 A	A 4-Port Ultra-Compact 5G MIMO Antenna for MM-Wave N257 And N261 Band Applications	08/03/2024	Published
3.	202341050227 A	Design of ultra Compact Dual-band 26/38 GHz monopole Antenna for 5G mm-Wave applications	01/09/2023	Published

4.	374846-001 /D/CA /BG	Design and Performance Analysis of Compact Ultra Wide Band Microstrip Antennas for 5G Wireless Applications	Filed	Filed
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Details of Conferences/FDPs/STTPs/webinars/Workshops Organized

S.No.	Name of the event	Role	Dates
1			

Details of Conferences/FDPs/STTPs/webinars/Workshops Participated

S.No.	Name of the event	Organized by	Dates
1	Future Communications Technologies: 5G & Beyond	Department of Electronics Engineering, NIT Uttarakhand	January 29- February 03, 2024

Awards/recognitions/achievements

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1	Department Best Teacher Award	Bapatla Education Society	2020

Details of project proposals submitted/sanctioned/completed

S.No.	Title of the Project	Funding body	Submitted/ Sanctioned/ Completed	Amount	Year/ duration

Consultancy contribution

S.No.	Year	Amount	Details
1			

Student Project/research guidance

S.No	Level	Total number	
1	UG	Completed: 10+	Ongoing:
2	PG	Completed:	Ongoing:
3	PhD	Completed:	Ongoing:

Administrative experience

S.No.	Role	Duration (From – to)
1	Department website coordinator	2015-2021

Research credentials

Index/database	ID/Link
Google Scholar	Google Scholar link:
SCOPUS	
Web of Science	
Vidwan ID	

Any other relevant information

Communicated Articles:

1. K Nagaraju, N. Venkateswararao,G. Mahesh, Shaik Idrish“Linear Phased Quatrefoil slotted patch Antenna Array at 28GHz for 5G Base stations”, Communicated to journal of Telecommunications and Radio Engineering (**Scopus**) with Manuscript Number THAF-53511 (Status: Assigned to Editor)
2. K Nagaraju , A. Kavitha, CH Sekharrao Kaitepalli, “Design of Reconfigurable structured Patch Antenna with Beam-steering capabilities using Meta-materials”, Communicated to journal of Wireless Personal communication (**SCIE**) with Manuscript Number WIRE-D-21-02854. (Status: Reviewer assigned)
3. K. Raju and A. Kavitha, “Miniaturization and radiation analysis of metamaterials imprinted 5G patch antenna at 28 GHz”, Comptes Rendus de l'Académie des Sciences (**SCIE**). (Status: With Editor)

Kakumanu Naga Raju
15-07-2024