



## **Dr. K S RAVI KUMAR**

### **Associate Professor**

### **Department of Electronics & communication Engineering**

**RAGHU ENGINEERING COLLEGE, Visakhapatnam - 531162,**

**Andhra Pradesh, INDIA**

ravikumar.korada@raghuenggcollege.in

**Interests:** Antennas; Machine Learning; Radar Signal Processing; Real-Time Signal Processing using Embedded Systems; Advanced Digital System Design; Real-Time Embedded System;

### **Course Taught Previously**

#### **UG.**

- Electronic Devices & Circuits.
- Digital Logic Design.
- Signals & Systems.
- Network Analysis
- Analog Communications.
- Electronic Circuit Analysis
- Pulse and Digital Circuits
- Linear IC Applications
- Linear and Digital IC Applications
- Microwave Engineering
- Digital Signal Processing
- Satellite Communications
- Optical Communication.
- Semiconductor Diode and Applications
- **Laboratories Handled**
- Electronic Devices & Circuits Lab. (Designing circuits using Diodes, BJT, FET & CE, CC Amplifiers)
- Electronic Circuit Analysis Lab
- Linear IC Applications Lab (741 Op-amp applications, IC 555, Designing of various Digital and Analog Circuits)
- Analog Communications Lab
- Digital Communications Lab

- Pulse and Digital Circuits Lab
- Microwave and Optical Communications Lab

## **Publications**

### **International Journals**

1. **KS Ravi Kumar, KP Vinay, Lalbabu Prasad, Ramesh B, "Fan Shaped Patch with Fan Shaped Defected Ground Structure is designed for X-band Applications", IJARCSSC, vol-8, April-2018**
2. Dr.K.P.Vinay , B.Ramesh , Lal Babu Prasad , K.S.Ravi Kumar , Prof. D.V.R. K. Reddy Micro Strip Patch Antenna with Multi-Split Ring Resonator Using DGS for Multi Band Applications, IOSR Journal of Engineering (IOSRJEN), www.iosrjen.org ISSN (e): 2250-3021, ISSN (p): 2278-8719 Vol. 08, Issue 6 (June. 2018), PP 52-57
3. L. Prasad, B. Ramesh, K.S.R. Kumar , K.P. Vinay, "Design and Implementation of Multiband Microstrip Patch Antenna for Wireless Applications", ADVANCED ELECTROMAGNETICS, VOL. 7, NO. 3, AUGUST 2018. (SCI)
4. K.S.Ravi Kumar, Lalbabu Prasad, B.Ramesh, Dr.K.P.Vinay, Prof P.Mallikarjuna Rao, "BROAD BAND COMB SHAPED MICOSTRIP PATCH ANTENNA FOR X-BAND & Ku-BAND APPLICATIONS", American International Journal of Research in Science, Technology, Engineering & Mathematics, , June-August, 2018, pp. 52-54
5. K. S. Ravi Kumar , Saladi Chandra Mouli, Nandini Nayak , Dharmapu Tej Kumar , Kasibhatla Likitha, "DESIGN OF SPIRAL SHAPED TEXTILE ANTENNA WITH DGS FOR S-BAND , C-BAND AND X-BAND APPLICATIONS", JASC: Journal of Applied Science and Computations Volume VII, Issue VII, July/2020 ISSN NO: 1076-5131
6. Ravi Kumar K.S , Dhanunjaya P , Swetha Priya Ch , Akhil Kumar P , Yaswanth Kumar B, "DESIGN OF TEXTILE BASED CAPSIZE STROBILE SHAPED ULTRA WIDEBAND ANTENNA FOR INTEGRATED AND WIRELESS APPLICATIONS" JASC: Journal of Applied Science and Computations Volume VII, Issue VII, July/2020 ISSN NO: 1076-5131
7. K. S. Ravi Kumar , Dr Yashpal Singh , Dr K P Vinay, "DESIGN OF O-SHAPED YARN ANTENNA WITH DGS FOR S-BAND , C-BAND AND X-BAND APPLICATIONS", **Airo international research journal , ISSN-2320-2714, Volume-23, Issue-3, December-2020**
8. Mr. K S Ravi Kumar, Research Scholar, University of Technology, Jaipur. Dr. K P Vinay, Professor, REC, Visakhapatnam Dr. Pramod Sharma, Professor, University of Technology, Jaipur, "Designing of Wearable Antenna for Ultra-Wide band Applications", **Airo Journals, Unpaid peer reviewed multidisciplinary journal,ISSN-2320-3714,Volume-2, Issue-3, June-2022**
9. K. S. Ravi Kumar , K. P. Vinay , B. Priyanka , D. Bharath , Ch. Chandra Deepak , Ch. Janardhan , D. Uttaj, "FLEXIBLE TEXTILE ANTENNA FOR E-HEALTH AND MOBILE HEALTH SYSTEM OF UWB APPLICATION," NeuroQuantology | September 2022 | Volume 20 | Issue 11 | Page 1526-1539| doi: 10.14704/nq.2022.20.11.NQ66144. (SCOPUS)
10. K. S. Ravi Kumar , Dr K P Vinay , S.G.S. Vardhan , T. Yaswanth , S.Yaswanth S. Surendra, "Flexible CPW-Fed Tuning fork-shaped Patch Antenna for UWB Applications", NeuroQuantology | September 2022 | Volume 20 | Issue 11 | Page 1520-1525| doi: 10.14704/nq.2022.20.11.NQ66143

## Conference Proceedings

1. B. Ramesh, K. P. Vinay, Lal BabuPrasad, K. S. Ravi Kumar and D. V. Rama Koti Reddy, "Novel Bludgeon-Shaped Microstrip Antenna with DGS for UWB Applications with Notch Band Characteristics", © Springer Nature Singapore Pte Ltd. 2020 R. Sharma et al. (eds.), Innovation in Electrical Power Engineering, Communication, and Computing Technology, Lecture Notes in Electrical Engineering 630, [https://doi.org/10.1007/978-981-15-2305-2\\_5](https://doi.org/10.1007/978-981-15-2305-2_5)
2. K. S. Ravi Kumar, Yashpal Singh, and K. P. Vinay, "Air Gap Coupled Microstrip Antenna for K/Ka Band Wireless Applications", © Springer Nature Singapore Pte Ltd. 2021 P. S. R. Chowdary et al. (eds.), Microelectronics, Electromagnetics and Telecommunications, Lecture Notes in Electrical Engineering 655, [https://doi.org/10.1007/978-981-15-3828-5\\_17](https://doi.org/10.1007/978-981-15-3828-5_17)
3. K. S. Ravi Kumar<sup>1</sup>, Dr. K. P. Vinay, Dr. Yashpal Singh, "Design of Tripple Band Microstrip Patch Antenna with DGS for UWB Applications", Proceeding of Importance of Inter-Disciplinary Studies in Higher Education in the Areas of Engineering, Science, Management and Humanities ISBN: 978-81-944699-5-7

## PHDs Supervised

Name of Student	Area of Research	Remarks *
-	-	-

## Workshops/Conferences/Seminars/Symposiums organised

### Conferences/Symposiums

S. No	Name of the Programme	Dates	Sponsored by	Role
-	-	-	-	-

## Seminars, Workshops and STTPs

S. No	Name of the Programme	Dates	Sponsored by
1.	GEOMETRY MODELLING IN HFSS	4 <sup>th</sup> May, 2020	Entuple Technologies Pvt. Ltd, Bangalore
2.	"Wearable Devices"	Jan 4 <sup>th</sup> to 8th, 2021	AICTE Training And Learning (ATAL) Academy
3.	Multi carrier modulation in broadband communication and technology challenge in 5G	May 29-30, 2020	Raghu Engineering College
4.	Reconfigurable	26 <sup>th</sup> May 2020	Narsaraopeta

	Antennas		Engineering college
5.	Microstrip Antennas and advanced wireless communication systems	15-16 May 2020	KHIT, Guntur
6.	Research skills enhancement	May-13, 2020	University of Technology, Jaipur, Rajasthan
7.	“Faculty Awareness Programme on Outcome Based Education (OBE) and NBA Accreditation	09 <sup>th</sup> May 2020	SEC, Nandyala, KURNOOL
8.	Advanced Antenna Design Using HFSS	12 <sup>th</sup> May to 17 <sup>th</sup> May, 2020	KRET, Tamilnadu
9.	Antenna and Microwave Engineering	8 <sup>TH</sup> June to 9 <sup>th</sup> June, 2020	RISE Krishna Sai Prakasam Group of Institutions, Ongole in association with ISTE chapter from 08/06/2020 to 09/06/2020
10.	Virtual Labs for Science and Engineering: A Community effort	May 13 <sup>th</sup> 2020	GIET, Bhubaneswar
11.	Effective technical report writing using LaTeX	8 <sup>TH</sup> June to 9 <sup>th</sup> June, 2020	MGIT, Hyderabad
12.	3D EM Simulation Involving CST Software”,	18 <sup>th</sup> May and 19 <sup>th</sup> May, 2020	Organized by Department of Electronics and Communication Engineering, Sri Venkateswara College of Engineering, Sriperumbudur
13.	RF Domain using ANSYS HFSS	June 12- 2020	Entuple TECHNOLOGY, Bangalore
14.	GHZ TO THZ ANTENNAS: TRENDS TECHNIQUES AND	June 10 <sup>th</sup> , 2020	IISST, Jaipur

	NEXT GENERATION REQUIREMENTS IN WIRELESS COMMUNICATION" ON 10 JUNE 2020		
15.	EM SIMULATION OF RF MODULES & ANTENNAS USING CST STUDIO SUITE",	8th to 9th, June 2020	Department of Electronics & Communication Engineering, Delhi Technological University, Delhi
16.	Computational Electromagnetic techniques for different RF Microwave and Millimeter-wave Application	25 <sup>th</sup> May 2020	GVPCE, Vizag
17.	<b>ADVANCES IN PRACTICAL ANTENNA DESIGN"</b>	<b>25<sup>TH</sup> MAY TO 30<sup>TH</sup> MAY-2017</b>	<b>RAGHU ENGINEERING COLLEGE</b>
18.	<b>PEDAGOGICAL TRAINING OUTCOME BASED EDUCATION"</b>	<b>18<sup>TH</sup> DEC TO 30<sup>TH</sup> DEC-2017</b>	<b>GAYATRI ENGINEERING COLLEGE</b>
19.	<b>RF ANTENNA DESIGN FOR APPLICATIONS"</b>	<b>28<sup>TH</sup> JAN TO 2<sup>ND</sup> FEB-2019</b>	<b>GITAM UNIVERSITY</b>
20.	ANTENNAS",	Jan-April:2019, 12 Weeks course.	NPTEL
21.	MICROWAVE THEORY AND TECHNIQUES",	July-October:2019, 12 Weeks course	NPTEL
22.	Microwave and beyond: Present and Futuristic Wireless Communication Systems	4th -8th April 2022	Dept. of Electronics and Telecommunication Engineering, Kalimpong Government Polytechnic
23.	Electromagnetics: Recent Trends and Future Applications	February 28, 2022 to March 05, 2022	Department of Electrical Engineering, IIT Indore
24.	Innovative mechanism and	March 11 <sup>th</sup> and 12 <sup>th</sup> 2022	IQAC, KLU

	standards for assuring qualities in HEIs		
25.	National Intellectual property awareness Mission	June 28 <sup>th</sup> 2022	IPO, India
26.	Recent advances in IoT and Machine Learning: Application and Hands On	16 <sup>th</sup> -18 <sup>th</sup> December-2021	Robocoupler, REC, Vizag
27.			
28.			
29.			
30.			
31.			
32.			
33.			
34.			
35.			

**Visit to outside institute/organization:**

S. No	Instit. visited	Organization	Purpose of visit

**Continuing Education / QIP Short Term Lectures / Special Lectures given:**

S. No.	Title of Lecture / Lecture Series	Place

**Details of professional training and research experience**

S.No.	Title of the Course	Place	Year	Duration
1				

**Projects**

**Sponsored R & D, Consultancy Projects:**

S. No	Title of Project	Funding Agency	Financial Outlay	Project Period	Project Status

### **Awards and Honors**

1. **Best Engineering Researcher Award - 2022** from **University of Technology, Jaipur, Rajasthan**, in recognition of his outstanding research, in the field of Electronics & Communication Engineering.
2. **Best Teacher Award in 2013** at **Srichaitanya Engineering college, Kommadi, Visakhapatnam**

### **Additional Responsibility**

#### **RESPONSIBILITIES WITHIN THE INSTITUTE:**

1. NAAC criteria-2 Dept. Coordinator, REC. vizag
2. NBA, Criteria-5 Coordinator, REC. vizag.
3. In-Charge, Dept of ECE Exam Section, REC. vizag.
4. In-charge, Dept maintenance, REC. vizag

#### **POSITIONS HELD OUTSIDE THE INSTITUTE:**

1. Member - IFERP.
2. Member, IAENG
3. Reviewer for TMH book on 'Electronic Devices and Circuits' Edition 2012.
4. Reviewer for National Symposium On Trends In Electronics & Communication (TREAT17)
5. Tech viva voce external examiner at Avanthi Engineering College
6. Tech viva voce external examiner at Gokul Engineering College
7. As a reviewer for journal of Ambient Intelligence and Humanized computing