



Dr. K. Phaninder Vinay

Professor

Department of Electronics & communication Engineering

Raghu Engineering College, Dakamarri - 531162, AP, INDIA

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Interests: Textile Antennas, Tera Hertz Antennas, Computational algorithms, Advanced Electromagnetics, Reconfigurable antennas

Course Taught Previously

PG.

- Embedded Systems
- E&RTOS
- FPGA Design

UG.

- Electronic Devices and circuits
- Electro Magnetic waves and Transmission Lines
- Micro processor and Interfacing
- Digital Signal Processing.
- Signals and systems
- Antenna theory & Wave propagation
- Analytical Instrumentation
- Opto electronics and laser instrumentation
- Transducers& Instrumentation
- Electronic Equipment Design
- Sensors and signal condition.
- Industrial Instrumentation
- Telemetry
- Measurement systems
- MEMS
- **Laboratories Handled**
 - Advanced Digital System Design Lab.
 - Microwave & OC lab

- HFSS lab(Skill Lab)

Publications

International Journals

1. Dr.K.P.Vinay "Circularly Polarized Microstrip Patch Antenna Using PBG Structures." , International Journal of Innovative Technology and Exploring Engineering, Volume - 8, Issue- 6, Year - 2019, Publisher - Blue Eyes Intelligence Engineering & SciencesPublication
2. Dr.K.P.Vinay , "Reconfiguration Rectangular Microstrip Patch Antenna for S-Band Applications.",5thInternationalConferenceonMICRO- ELECTRONICS,ELECTROMAGNETICS AND TELECOMMUNICATIONS, Volume -3, Issue-2, Year - 2019, Publisher - Springer
3. Dr.K.P.Vinay, "Air Gap Coupled Microstrip Antenna for K/Ka Band wireless Applications.",5thInternational Conference on MICRO-ELECTRONICS,ELECTROMAGNETICS AND TELECOMMUNICATIONS, Volume -8, Issue- 2 , Year -2019, Publisher –Springer.
4. Dr.K.P.Vinay , "Novel Bludge on Shaped Microstrip Antenna with DGS for UWB Applications with notch band Characteristics." , Innovation in ELECTRICAL POWER ENGINEERING COMMUNICATION AND COMPUTING TECHNOLOGY,Volume - , Issue- , Year -2019, Publisher -Springer
5. Dr.K.P.Vinay , "Design of Triple band Microstrip patch antenna with DGS for UWB Applications." International Conference on importance of Interdisciplinary studies In Higher Education ", Volume - 4 , Issue-3, Year -2019 , Publisher – Springer.
6. Dr.K.P.Vinay, "Design and Analysis of LOL-P Textile Antenna." 10th InternationalConference on Innovations in Bio-Inspired Computing and Applications , Volume -2, Issue-5, Year - 2019, Publisher - Springer
7. Dr.K.P.Vinay , "Design of Microstrip Patch Antenna for RFID Reader Applications ."Proceedings of 2nd International Conference on Micro-Electronics, Electromagnetics and Telecommunications , Volume -5 , Issue-1 , Year - 2018, Publisher -Springer
8. Dr.K.P.Vinay , "Fan Shaped Patch with Fan Shaped Defected Ground Structure is designedfor X-band applications." International Journals of Advanced Research in Computer Science and Software Engineering ", Volume - 8 , Issue-4, Year -2018 ,Publisher
9. Dr.K.P.Vinay , "Micro Strip Patch Antenna with Multi-Split Ring Resonator Using DGS for Multi Band Applications.",IOSR Journal of Engineering (IOSRJEN)", Volume - 8, Issue- 6 (June. 2018), Year - 2018 , Publisher -" International organization of Scientific Research
10. Dr.K.P.Vinay , "Design and Implementation of Multi Band Microstrip Patch Antenna for Wireless Applications." , ADVANCED ELECTROMAGNETICS, Volume – 7 , Issue- 3, Year – 2018 , Publisher -AEMJournal.org

11. Dr.K.P.Vinay, "Design of Textile Microstrip Patch Antenna for Aeronautical & X-Band Applications." International Journal of Electronics Engineering (ISSN: 0973-7383) , Volume - 10, Issue- , Year - 2018, Publisher -Computer Science And Electronic Journals
12. K.P.Vinay , "Novel Multi Band Circular Microstrip Antenna with DGS For X-BandApplications." International Journal of Applied Engineering Research, Volume - 11, Issue-3, Year – 2016 , Publisher -Research India Publications.
13. K.P.Vinay , "Design of 1X2 Triangular Shaped Microstrip Patch Antenna Array for WLAN Applications with DGS Structures." ,International Journal of Innovative Research in Computer and Communication Engineering , Volume - 3 , Issue-3, Year - 2015 , Publisher - IJIRCCE
14. K .Phaninder Vinay , "Design of Microstrip Patch Antenna for GPS Applications using EBG Structures" published in International Journal of Innovative Research in Computer and Communication Engineering" (IJIRCCE), Volume 3 – Issue -3 on March 2015, DOI : 10.15680/ijircce.2015.0303125.
15. K. Phaninder Vinay, "Design and Analysis of Slot Antenna Parameters Using HFSS" published in International Journal of Innovative Technology and Exploring Engineering" (IJITEE), Volume 3 – Issue -12 on May 10, 2014.
16. K. Phaninder Vinay, "Design and Analysis of Triangular Microstrip Antenna using Various Substrates" published in International Journal of Review in Electronics & Communication Engineering (IJRECE), Volume 2 – Issue 2 April 2014, e-ISSN 2312 – 3159, p – ISSN 2321 – 3159.
17. K.Phaninder Vinay, "Virtual Instrumentation Based Surveillance System in Industry" published in IJ International journal of Engineering Research and Applications (IJERA) ISSN:2248-9622, Vol.3, Issue 4, JUL-AUG 2013, pp.903-907.
18. K.Phaninder Vinay , "Design of 1X2 Triangular Shaped Microstrip Patch Antenna array for WLAN Applications with DGS Structures" published in International Journal of Innovative Research in Computer and Communication Engineering" (IJIRCCE), Volume 3, Issue -3 on March 2015, DOI : 10.15680/ijircce.2015.0303146.
19. K.Phaninder Vinay , "Virtual Instrumentation Technique for Detecting and Elimination of Damaged Eggs" published in IJCST ISSN : 0976-8491 (Online)
20. K.P.VINAY and N.Jagadesh babu . "Viscosity Measurement of Engine oil using a sensor for the conditioning and Monitoring", Vol no . NSI.33 , ISOI journal ,IISC Bangalore.
21. K.P.VINAY and Challa Chaitanya "Effect of Frequency on growth of the seeds", in National symposium on instrumentation organized by Department of Instrument Technology , Andhra University College of Engineering ,Visakhapatnam.
22. K.P.Vinay and M.Sri Nagesh "Measurement of Distance using Ultrasonic Sensor" in National symposium on instrumentation organized by Department of Instrument Technology , Andhra

University College of Engineering ,Visakhapatnam.

23. K.Phaninder Vinay , "Malware Detection and Preventive Measure in Peer-to-Peer Networks" - ISSN:2249-1945, GJCAT, Vol. 1(4),2011,767-771

Conference Proceedings

1. K.P. Vinay, Lal Babu Prasad, K. S. Ravi Kumar and Dr. D. V. Rama Koti Reddy, **Novel Bludgeon shaped Microstrip Antenna with DGS for UWB Applications with Notch band characteristics**, in: proceedings of 1st International Conference on "Innovation in Electrical Power Engineering, Communication and Computing Technology (IEPCCT-2019) during 13th – 14th December, 2019, SOA University, Bhubaneswar, Odissa. (SPRINGER)
2. K.P. Vinay, Lal Babu Prasad and Dr. D. V. Rama Koti Reddy, **Reconfigurable Rectangular Microstrip Patch Antenna for S- Band Applications**, In: Proceedings of 5th International Conference on "Micro-Electronics, Electromagnetics and Telecommunications" (ICMEET-2019) on December 6-7, 2019. (SPRINGER)
3. K. P. Vinay, Prof. P. Rajesh Kumar and Dr. D. V. Rama Koti Reddy, **Design of Textile Microstrip Antenna for UWB Applications**, In: Proceedings of the Two Day National Symposium on "Trends in Electronics & Telecom" at NIT-Warangal on February 17-18, 2017.
4. K.P. Vinay, Lal Babu Prasad and Dr. D. V. Rama Koti Reddy, **Design of Microstrip Patch Antenna for RFID Reader Applications**, In: Proceedings of 2nd International Conference on "Micro-Electronics, Electromagnetic and Telecommunications" (ICMEET-2016) on January 6-7, 2017.(SPRINGER)
5. Presented a paper entitled "Design of RF MEMS Antenna using EBG Structures for Future 5G Networks" in smart sensors and systems held during 8th to 10th December 2015 by Department of Instrument Technology .AUCOE ,Visakhapatnam in association with ISSS ,IISc ,Bangalore

PHDs Supervised

Name of Student	Area of Research	Remarks *
Dr. Korada S Ravi Kumar	Textile microstrip antennas for UWB applications	Awarded
Mr. Y. E. Vasanth Kumar	Reconfigurable antennas for ISM Band applications	On-going Part-time

Workshops/STTPs/Seminars/Symposiums organised

S. No	Name of the Programme	Dates	Sponsored by	Role
1.	FDP on Machine learning in Real time embedded & IOT	2 nd Mat-11 th May 2022	E & ICT Academy – NIT-Warangal	Organizing Secretary

	applications			
2.	a Guest Lecture on wireless & IP Networks	19th FEB,2020	Networks Mr.S .Sanjeev Sharma, Systems Engineer, Rucus Networks,Colorado, USA	Organizing Secretary
3.	lecture on Computational Algorithms for Electromagnetic complex Engineering	29th & 30th May 2020	Dr.K.S.Shushrutha, Dr.A.Mahesh, Assoc Professor, R.V College of Engineering ,Bangalore	Organizing Secretary
4.	Advanced Antenna Techniques	21 st SEPT 2019	Dr. Jibendu Sekhar Roy Research Scientist, Professor, KIIT University, Bhubaneswar	Organizing Secretary
5.	An Awareness talk on Research Grants Proposal writing in thrust areas	30 th March, 2019	H.Jatana Singh Scientist/Engineer, Group Head, Design Process Group	Organizing Secretary
6.	a Guest Lecture on Design of CMOS Circuits	30th March,2019	Dr. Anand Bulusu, Assoc Professor, IITRoorke	Organizing Secretary
7.	a Two day On line FDP on Multi Carrier Modulation in Broadband Communication & Technology Challenges In 5G	15 th April 2019	Dr.S.Ravi Shankar, Professor ,R.V College of Engineering ,Bangalore	Organizing Secretary

8.	conducted Work Shop on Artificial Intelligence & Machine Learning	22nd - 23rd FEB, 2019	QualCom, HYD	Organizing Secretary
9.	Guest lecture on DSP applications in industries	3rd August, 2019	Mr. Ch. Challam Naidu, Scientist D, NSTL, Vizag	Organizing Secretary
10.	Workshop on Antenna Fabrication and Measurements	30th JULY, 2019	Anritsu India Pvt. Ltd, Hyderabad	Organizing Secretary
11.	a Guest lecture on DSP applications in industries	16 th AUG, 2018	Mr. Ch. Challam Naidu, Scientist-D, NSTL, Vizag	Organizing Secretary
12.	FDP on Advances in Practical RF Antenna Design	25-5-2017 to 30-5-2017	E & ICT Academy – NIT-Warangal	Co Ordinator
13.	Android Applications Development Workshop by Geekslab Technologies	25 th and 26 th February 2017	Geekslab Technologies in association with Society of Instrumentation and Electronics Engineers and IETE chapter, Vizag	Co Ordinator

Awards and Honors

- Convener for Proceedings of 2nd International Conference on Micro-Electronics, Electromagnetics and Telecommunications ICMEET 2016.
- Elected as member in Electrical Society of Ethiopia during 2009-2010.
- Worked on Programmable Logic Controllers and handled live project.
- Worked on GM counting system and Gamma ray spectrometer for counting Nuclear Radiations and Observing the patterns in Nucleonix Systems, Charlapalli, Hyderabad.

- Worked on Fiber optics in Fiber Optic Station , Vijayawada.
- Worked on Gas Chromatography , qualitative analysis of organic Samples.
- Worked on Route Relay Interlocking in south central railway in Vijayawada
- Worked on "Recent Trends in Electronic Instrumentation" organized by Andhra University on 22 Oct. 2005.

Additional Responsibility

- As a part of administration and responsibilities of Head of the Department handled the following jobs
 - Overall responsibilities of Department
 - Autonomous curriculum and syllabi preparation
 - Academic Planning and Monitoring
 - Department Budget
 - NBA work
 - NAAC work
 - Organized Technical Fest SPARKS
 - All Department committee like APMC,DAC.

Professional Membership

- Executive Life member for "Instrument Society of India" - LM ID : 1603
- Member-IEEE – ID : 97226777
- Member-IAENG – ID - 270538

Certifications done :

1. Course era certified on "Crash course on python"
2. Course era certified on "AI for everyone"
3. Course era certified on "Introduction to Programming with MATLAB"
4. Certification on MATLAB Onramp by MathWorks
5. Course completed on Optimization Problems and algorithms in Udemy
6. Course completed on CST Antenna Design in Udemy
7. Certificate obtained on OBE and NBA Accreditation by "Sinhgad Institute of Technology and Science ,Pune" on 09-05-2020
8. Trained and certified in COMSOL Multiphysics version 4.1 software.

Workshops / Seminars Attended

1. Attended FDP on Course on Machine Learning "Computer Society of India, Trivandrum Chapter" from 23-04-2020 to 30-04-2020.

2. Attended FDP on Advanced Antenna Design Using HFSS "Shantiram Engineering College, Kurnool" from 12-05-2020 to 17-05-2020.
3. Attended webinar IEEE Xplore Digital Library: Boosting Every Aspect of YOUR Career IEEE Education Society Chapter of IEEE Hyderabad on 08-04-2020.
4. Attended workshop on RF and Antenna Design using ANSYS HFSS by "Entuple Technologies with IEEE, MTT-S" on 04-05-2020.
5. Attended FDP Microstrip Antennas for Advanced Wireless Communication "KHIT Guntur -IETE" from 15-05-2020 to 16-05-2020.
6. Attended FDP on SCILAB "organized by Department of ECE, PSCMR CET in association with Spoken Tutorial, IIT Bombay-PMMMNMTT" from 29-04-2020 to 03-05-2020
7. Participated in NAAC sponsored two days national workshop on "Quality Enhancement in curriculum Design and Development for Higher Education Institutions" by Raghu Engineering college 29th, 30th November 2018.
8. Participated in "CRUX of writing Journal papers, Research Project Proposals and Patents a two days Faculty workshop organized by Department of Mechanical Engineering at Raghu Engineering College, Visakhapatnam on 27th and 28th April 2017.
9. Participated in seminar on smart sensors and systems held during 8th to 10th December 2015 by Department of Instrument Technology .AUCOE, Visakhapatnam in association with ISSS, IISc, Bangalore.
10. Presented a paper entitled "Design of RF MEMS Antenna using EBG Structures for Future 5G Networks" in smart sensors and systems held during 8th to 10th December 2015 by Department of Instrument Technology .AUCOE, Visakhapatnam in association with ISSS, IISc, Bangalore
11. One Week AICTE recognized Short term Course on "Soft computing using Sci-Lab" through ICT conducted by Educational Television Centre from 21-07-2014 to 25-07-2014 by NITTTR, Chandigarh at Raghu Engineering College.
12. AICTE sponsored Two Day National Seminar on "Recent Developments in Multi-objective Optimization Techniques in the field of Engineering" conducted by the Department of Mechanical Engineering, Raghu Engineering College on 8th & 9th May 2014.
13. Participated in one week Training on Welcome change & Excel conducted by Raghu Engineering College 18th June 2014 to 24th June 2014
14. One Day Workshop on "Full Wave Simulation and Analysis of planar Antennas" organized by Raghu Institute of Technology on Feb 5TH 2014.
Two Week Faculty Development Program on "PEDAGOGICAL TRAINING" conducted by Raghu Engineering College from 11-11-2013 to 23-11-2013.
15. Two Week Faculty Development Program on "Recent Trends in Embedded Systems and Signal Processing", AICTE PROGRAM, SVS INSTITUTE OF TECHNOLOGY WARANGAL from 21-09-2013 to 4-10-2013.

16. National workshop on “Bio – informatics and Genomic Signal Processing” organized by IEEE computational Intelligence Society on 18th & 19th August 2012.
17. Workshop on PLC’s for industrial purpose in Ethiopia , conducted by Further training institute , Adama University , Ethiopia .
18. Workshop on “Recent Trends in Electronic Instrumentation” organized by AU