



Mr. Lalbabu Prashad

Assistant Professor

Department of Electronics and Communication Engineering

Raghu Engineering College, Dakamarri, Visakhapatnam-531162,

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Interests: RF Energy Harvesting, Microstrip Patch Antenna, Biomedical Antenna, Conformal Antenna, Textile Antennas, Radar Signal Processing;

Course Taught Previously

UG

- Electronics Devices and Circuits (EDC)
- Signal and Systems (SS)
- Electromagnetic Wave and Transmission Lines (EMWTL)
- Control Systems (CS)
- Pulse and Digital Circuits (PDC)
- Linear IC Applications (LICA)
- Microwave Engineering (MWE)
- Digital Image Processing (DIP)
- Cellular and Mobile Communications (CMC)

Laboratories Handled

- Electronics Devices and Circuits Lab
- Pulse and Digital Circuits Lab
- Linear IC Applications Lab
- Analog Communications Lab
- Microprocessor Lab
- Microwave and Optical Communications Lab

Publications

International Journals

1. **Prashad, L.**; Mohanta, H.C.; Mohamed, H.G. "A Compact Circular Rectenna for RF-Energy Harvesting at ISM Band". *Micromachines* 2023, 14, 825. **(SCI) (Cited by 1)**
2. **Lalbabu P**, K P Vinay, S M Gowthami, S Mahesh Naidu, R Kusuma, "A Conformal Coplanar Rectangular Patch with Slot Antenna for Biomedical Applications", *TELEMATIQUE*, 21(1):3921 – 3931, 2022.**(ESCI)**
3. **P. Lal Babu**, K.P.Vinay, P. Sri Lakshmi, R. Santhosh Chandra, M. Jithendra, Revanth Rahul, "PSO Optimization based Dual F-Shaped Triple Band Patch Antenna with Dumbbell Comb Shaped DGS", *NeuroQuantology*, 22(11):1512-1519, 2022. **(Scopus)**
4. **Lalbabu Prashad**, Amiya Ranjan Jena, Bonthu Lakshman, B.Sita Ratna Madhuri, P.P.V.S Narayana Rao, "Design of Novel Dual-Band Textile Microstrip Antenna for Wi-Fi/WLAN and ISM Band Applications", *Journal of Applied Science and Computations (JASC)*, vol 7 issue 7, pp 18-21,2020. (UGC approved).
5. **L Prasad**, B Ramesh, KSR Kumar, KP Vinay, "Design and implementation of multiband microstrip patch antenna for wireless applications", *Advanced Electromagnetics*,_vol 7 no 3, pp 104-107, 2018. **(Emerging Sources Citation index) (Cited by 14)**
6. K. P. Vinay, B. Ramesh, **Lalbabu. P**, Y.E. Vasanth Kumar, M. Meena Kumari, "Circularly Polarized Microstrip Patch Antenna Using PBG Structures", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, vol 8 no 6, pp 491-494, 2018. **(Scopus) (Cited by 2)**
7. K.S.Ravi Kumar, **Lalbabu Prasad**, B. Ramesh, Dr.K.P.Vinay, Prof P.Mallikarjuna Rao, "Broad Band Comb Shaped Microstrip Patch Antenna For X-Band & Ku-Band Applications", *American International Journal of Research in Science, Technology, Engineering & Mathematics*, vol 1 issue 23, pp 52-54,2018. **(Cited by 4)**
8. 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)*, vol 8 issue 6, pp 52-57,2018. (UGC approved).
9. K.S.Ravi Kumar, **Lalbabu Prasad**, B. Ramesh, Dr.K.P.Vinay, "Fan Shaped Patch with Fan Shaped Defected Ground Structure is designed for X-band applications", *International Journals of Advanced Research in Computer Science and Software Engineering*, vol 8 issue 4, pp 57-60,2018.
10. M.Meena Kumari, B.Ramesh, **Lal Babu Prasad**, Dr. K.P.Vinay "Design of Textile Microstrip Patch Antenna for Aeronautical & X-Band Applications", *International Journal of Electronics Engineering*, vol 10 issue 2, pp 681-684,2018.

Conference Proceedings

1. **L. B. Prasad**, H. C. Mohanta and K. P. Vinay, "Wide Band Conformal Coplanar Benz Shaped Circular Ring Antenna for C and X Band Applications," *2022 International Conference on Computing, Communication and Power Technology (IC3P)*, 2022, pp. 44-47, doi: 10.1109/IC3P52835.2022.00018, organized by **IEEE** from 7th-8th January 2022 at Raghu Educational Society, Vizag. **(Cited by 9)**
2. D. Gopi, V. K. Allam, **L. Prasad** and K. Tejaswi, "Linearly Tapered Meandered Slot Flexible Antenna for DCS/ISM/WLAN/WiMAX Applications," *2022 International Conference on Computing, Communication and Power Technology (IC3P)*, 2022, pp. 48-51, doi: 10.1109/IC3P52835.2022.00019, organized by **IEEE** from 7th-8th January 2022 at Raghu Educational Society, Vizag. **(Cited by 1)**
3. **LalBabu Prasad**, B. Ramesh, and K. P. Vinay, "Reconfigurable Rectangular Microstrip Patch Antenna for S-Band Applications" in 5th International Conference on Micro-

Electronics, Electromagnetic and Telecommunications (ICMEET) organized by **Springer** from 6th-7th December 2019 at Raghu Educational Society, Vizag.

4. B. Ramesh, K. P. Vinay, **Lal Babu Prasad**, K. S. Ravi Kumar and D. V. Rama Koti Reddy, "Novel Bludgeon-Shaped Microstrip Antenna with DGS for UWB Applications with Notch Band Characteristics" in Innovation in Electrical Power Engineering, Communication, and Computing Technology (IEPCCT) organized by **Springer** from 13th-14th December 2019 at ITER, SOA University, Bhubaneswar.
5. K.P. Vinay, B. Ramesh, **Lal Babu Prasad** and D.V. Rama Koti Reddy, "Design of Microstrip Patch Antenna for RFID Reader Applications" in 2nd International Conference on Micro-Electronics, Electromagnetic and Telecommunications (ICMEET) organized by **Springer** from 6th-7th January 2017 at Raghu Educational Society, Vizag. **(Cited by 4)**
6. Anil Kumar Patnaik, S. Suresh, A. Swathi, **Lal Babu Prasad**, G. Kishore Babu and Anusha Koppiseti, "Analysis and Design of Balanced Vivaldi Antenna for Triple Band Applications" in 2nd International Conference on Micro-Electronics, Electromagnetic and Telecommunications (ICMEET) organized by **Springer** from 6th-7th January 2017 at Raghu Educational Society, Vizag. **(Cited by 4)**

Workshops/Conferences/Seminars/Symposiums organised: Nil

Seminars, Workshops and STTPs

S. No	Name of the Programme	Dates	Sponsored by
1.	Design and Analysis of Microwave Antennas	26 th June to 1 st July 2023	IEEE MTT-S, Vardhaman college of Engineering, Hyderabad.
2.	Research Challenges and Issues on Antennas	27-02-2023 to 04-03-2023	IEEE Antennas & Propagation society (Madras Section), Chennai.
3.	Design of High-frequency Antennas for Real-time Applications (DHARA-2023)	14-03-2023 to 18-03-2023	GMR Institute of Technology, Rajam and VR Siddhartha Engineering College, Vijayawada
4.	Artificial Intelligence, Machine Learning and Deep learning with MATLAB and Simulink	23-11-2022 to 25-11-2022	CAPRICOT Technologies Pvt. Ltd Hyderabad.
5.	Analog and Digital IC Design using CADENCE Design Flow	26 th to 29 th Oct 2022	Entuple Technologies Pvt. Ltd, Hyderabad
6.	Machine Learning in Real Time Embedded & IOT Applications	2nd May to 12th May 2022	MeitY, Govt. of India
7.	Microwave and Beyond: Present and Futuristic Wireless Communication Systems	4th -8th April 2022	Kalimpong Government Polytechnic. West Bengal, India
8.	Electromagnetics: Recent Trends and Future Applications	28-02-2022 to 05-03-2022	Department of Electrical Engineering, IIT Indore

9.	RF & Microwave Components	14-05-2022 to 20-05-2022	School of Electronics Engineering (SENSE), VIT-AP University, Amaravati (AP), India.
10.	Modern Antenna Design and its Challenges	21-02-2022 to 25-02-2022	Department of ECE, Mizoram University, India
11	Wearable Devices	15.02.2022 to 19.02.2022	Narayana Engineering College, Gudur, Andhra Pradesh, India.
12.	Recent advances in IoT and Machine Learning: Applications and Hands-On	16-12-2021 to 18-12-2021	RoboCoupler Pvt. Ltd.
13.	Research Methodology, Research Publication and Patent Filing	20.09.2021 to 24.09.2021	IEEE Bombay Section and IEEE Signal Processing Pune Chapter
14.	Recent Advances in Antennas for Wireless Communications	27.07.2021 to 31.07.2021	Bapatla Engineering College, Bapatla, Andhra Pradesh
15.	COmmunication, Vlsi, Image processing and Design of antennas	03-09-2020 to 04-09-2020	Department of ECE, UCEV, JNTUK
16.	Metamaterial & its Applications	July 27-31, 2020	IEEE Rajasthan Subsection, Malaviya National Institute of Technology Jaipur and Govt. Women Engineering College, Ajmer
17.	Antenna and Microwave Engineering	08.06.2020 to 13.06.2020	IETE Chapter and Society of EMC Engineers of K. Ramakrishnan College of Technology, Samayapuram, Trichy
18.	Advanced Antenna Design Using HFSS	12-05-2020 to 17-05-2020	Vardhaman College of Engineering ,Hyderabad
19.	Speech Processing Applications & Challenges	20-05-2020 to 25-05-2020	International Institute of Information Technology, Hyderabad
20.	Artificial Intelligence	24-05-2020 to 29-05-2020	Brain O Vision Solutions India Pvt. Ltd.
21.	Antenna and Microwave Engineerin	08.06.2020 to 13.06.2020	IETE Chapter and Society of EMC Engineers of K. Ramakrishnan College of Technology, Samayapuram, Trichy
22.	Technical Papers on RF & microwave	2018	Keysight Technologies and Synergy measurement Technologies India Pvt Ltd
23.	Advances in Practical Antenna Design	25th May to 30th May 2017	MeitY, Govt. of India

24.	Soft Computing Using Sci-Lab through ICT	21/07/2014 25/07/2014	to	National Institute of Technical teachers training and research, Chandigarh
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Visit to outside institute/organization:

S. No	Instit. Organization visited	Purpose of visit
1.	JNTU-GV, Vizianagaram Directorate of faculty Development Cell during 6 th to 10 th Feb, 2023	FDP on Current trends in Artificial Intelligence and Engineering Applications in the area of Machine Learning and Deep Learning
2.	MVGR College of Engineering (A), Vizianagaram, Co-sponsored by IEEE AP Society & IEEE Vizag Bay Sub Section, 28 th Nov to 2 nd Dec 2017.	Workshop on Advanced Antennas and Applications

Continuing Education / OIP Short Term Lectures / Special Lectures given: Nil

Details of professional training and research experience

S.No.	Title of the Course	Place	Year	Duration
1.	Accreditation and Outcome Based Education (19.07.2022 to 23.07.2022)	National Institute of Technical Teachers Training and Research, Chennai	2022	1 Week
2.	Kalam Internship Program (3 rd to 22 nd Jan 2021)	Tesla minds, Bangalore	2021	28 hours
3.	Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials (13.06.2020 to 01.07.2020)	Indian Institute of Remote Sensing (IIRS), ISRO Dehradun	2020	15 days

Projects

Sponsored R & D, Consultancy Projects: Nil

Awards and Honors:

- Got Silver+Elite with Top 5% in Principles of Signals and Systems
- Got Silver+Elite in Digital Image Processing-NPTEL online course

Additional Responsibility

RESPONSIBILITIES WITHIN THE INSTITUTE:

- NBA Criteria-4 coordinator member since 2014
- Class In charge duties
- MWOC Lab In charge in 2016-2018

POSITIONS HELD OUTSIDE THE INSTITUTE:

Member in:

- Life Member of Indian Society for Technical Education (ISTE) – LM 97771
- Member of International Association of Engineering (IAENG)-270939