



## **Dr. DATTATREYA GOPI**

### **Associate Professor**

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

### **Raghu Engineering College, Dakamarri - 531162, Andhrapradesh, INDIA**

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**Interests:** Antennas, Microstrip patch antennas, Conformal antennas, Implanted antennas, Bio- medical antennas, Textile antennas.

### **Course Taught Previously**

#### **UG**

- Electromagnetic waves and Transmission lines (EMWTL)
- Antenna Wave Propagation (AWP)
- Microwave & Optical Communications
- Analog Communication (AC)
- Electronic Devices and Circuits (EDC)
- Pulse and Digital Circuits (PDC)
- Digital Communications (DC)

#### **Laboratories Handled**

- Analog Communications Lab
- Microwaves & Optical communication Lab
- Microprocessor Lab (Dealing with 8086, 8051 Micro Controller)
- Electronic Devices Lab (Designing circuits using BJT, FET & CE CC Amplifiers)
- Digital Signal Processing Lab.

### **Publications**

#### **International Journals**

1. Dattatreya Gopi, Kokilagadda P V, Gupta S, Dodda VRKR, "Asymmetric

coplanar strip-fed textile-based wearable antenna for MBAN and ISM band applications" International Journal of Numerical Modelling: Electronic Networks, Devices and Fields" <https://doi.org/10.1002/jnm.2920>, 2021 (SCI) Impact factor- 1.29

2. **Dattatreya Gopi**, Appala Raju Vadaboyina, JRK Kumar Dabbakuti, "DGS based monopole circular-shaped patch antenna for UWB applications," SN Applied Sciences. vol.3, pp. 1-12, January 2021 <https://doi.org/10.1007/s42452-020-04123-w> (ESCI).
3. **G. Dattatreya**, Ketavath Kumar Naik, and S sandhya rani, "In-vitro test of miniaturized CPW-fed implantable conformal patch antenna at ISM band for biomedical applications," IEEE Access. vol.7, pp. 43547 – 43554, January 2019 DOI: 10.1109/ACCESS.2019.2905661 (SCI) Impact factor- 4.05.
4. **G. Dattatreya**, and Ketavath Kumar Naik, "A Low Volume Flexible CPW-fed Elliptical- Ring with Split-Triangular Patch Dual-Band Antenna", International Journal of RF and Microwave Computer-Aided Engineering- Wiley publication. DOI: 10.1002/mmce.21766 (SCI) Impact factor- 1.4
5. Ketavath Kumar Naik, **Gopi Dattatreya**, R P S Chaitanya, Ravi Kumar palla and Sriram Sandhya Rani, "Enhancement of Gain with Corrugated Y-Shaped Patch Antenna for Triple-band Applications", International Journal of RF and Microwave Computer-Aided Engineering- Wiley publication, DOI: 10.1002/mmce.21624. (SCI) Impact factor- 1.4
6. **Dattatreya Gopi** and Ketavath Kumar Naik, "Flexible CPW-fed Split Triangular shaped Patch Antenna for WiMAX Applications", Progress in Electromagnetics Research (PIER) M, Vol. 70, pp. 157-166, 2018. (SCI) Impact factor- 1.24
7. Ramya Radhakrishnan, Rucha Dholakia, Shilpi Gupta, **Dattatreya Gopi**, "Axial ratio tuned disk-shaped S-band triple notch circularly polarized slot antenna" International Journal of RF and Microwave Computer-Aided Engineering- Wiley publication. 2022;e23371. doi:10.1002/mmce.23371 (SCI) Impact factor- 1.4
8. V Allam, BTP Madhav, **Dattatreya Gopi**, K Phanindra Vinay, "NodeMCU controlled tortoise-shaped bandwidth reconfigurable antenna for 4G and 5G applications" Journal of Instrumentation, Volume 16, December 2021, <https://doi.org/10.1088/1748-0221/16/12/P12004>, (SCI) Impact factor- 1.12
9. **G. Dattatreya** and Ketavath Kumar Naik, "Tri-band Miniaturized Elliptical Shaped Flexible Patch Antenna for Wireless Communications at S-band Applications," International Journal of Microwave and Optical Technology (IJMOT), vol.14, no.1, January 2019. (Scopus)

10. **G. Dattatreya** and Ketavath Kumar Naik, "Circular Patch on Rectangular Slits loaded Antenna with DGS for Biomedical Applications," International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-8 Issue-4, February 2019. (Scopus)
11. Ravi Kumar Palla, Sandhya Rani Sriram, **Dattatreya Gopi**, and Kumar Naik Ketavath "Design of S-Band Antenna With L-Shaped Slits on Rectangular Patch With Defected Ground Structure," International Journal of Measurement Technologies and Instrumentation Engineering (IJMTIE) Volume 7, Issue 2. (Peer reviewed journal).
12. Ravikumar Palla, and **Dattatreya Gopi**, "Design of quad band microstrip patch antenna with slits and slots," International Journal of Advanced Technology and Engineering Exploration, Vol 8(82), Sep-2021, <http://dx.doi.org/10.19101/IJATEE.2021.874143>. (Scopus)
13. **G. Dattatreya**, H. K. Raghu Vamsi, N. Monish Sai Krishna & Sekhar Babu Palli, "CPW-FED Textile Antenna for Wearable Wireless Communication Applications" International Journal of Applied and Advanced Scientific Research, Volume 5, Issue 2, Page Number 25-31, 2020.

## Conference Proceedings

14. **Dattatreya 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.
15. **Dattatreya Gopi**, Amisha Kumari, Akul Karthik Talamarla, Amruth Joka, N Monish Sai Krishna, "CPW-Fed Conformal ESP Antenna for Vehicular Applications", Journal of Physics: Conference Series (IOPscience). J. Phys.: Conf. Ser. 1706 012073. (web of science). (Scopus)
16. **Dattatreya Gopi**, A R G Chandra Mouli K, V Janardhan Reddy, G K Chaitanya, S Ramu "Miniaturized CPW-fed Conformal Antenna for Guided Missiles," Journal of Physics: Conference Series (IOPscience). J. Phys.: Conf. Ser. 1706 012075. (web of science). (Scopus)
17. **G. Dattatreya**, Ketavath Kumar Naik, "Analysis of Flexible Inverted CSRR Microstrip Patch Antenna for C-band Applications", IEEE International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing, Vellore, January 2018.
18. **G. Dattatreya**, K. Kousalya, Y. Jyothirmayi, M. Vamsi Krishna, Harsha, PAV sri, Ketavath Kumar Naik, "Analysis of Complementary Split Ring Resonators on

- Rectangular Patch with Inset Feed for X-band Application”, IEEE Conference, International conference of Electronics, Communication and Aerospace Technology (ICECA 2017), Coimbatore, April 2017.
19. **G. Dattatreya**, K. Kumar Naik, PAVS, N. Yasasvini, Momina Anjum, “Compact Dual-band Hexadecagon Circular Patch Antenna with DGS for Ku Band Applications”, 39th International Conference on Progress In Electromagnetics Research Symposium (PIERS), NTU, Singapore, November 2017.
  20. PAVS, N. Yasasvini, M. Anjum, AV. Manikanta, D. N. S. S. Harsha, **G. Dattatreya**, Dr. K. Kumar Naik, “Analysis of wide Bandwidth Circular Ring with Rectangular Patch Antenna for Airborne Radar Application” IEEE Conference, International conference of Electronics, Communication and Aerospace Technology (ICECA 2017), Coimbatore, April 2017.
  21. K. Kumar Naik, T. Srinivasa Reddy, S. Rama lavanya, T. Prasanthi, PAVS, **G. Dattatreya**, Ch. Sravani, K. Ooha, “Design of Concentric Ring Slot on Bow-Tie Antenna with Defected Ground Structure”, IEEE Conference, International conference of Electronics, Communication and Aerospace Technology (ICECA 2017), Coimbatore, April 2017.
  22. Ketavath Kumar Naik, Saral Lakshmi, Anvesh kumar, Soumya, Sai sunaina, **G.Dattatreya** “Enhancement of Impedance Bandwidth with T-shaped Slots on Radiating Patch Antenna”, IEEE International Conference on Innovative Technologies in Engineering (ICITE) 2018, Hyderabad, April 2018.
  23. Ketavath Kumar Naik, Prudhvi Raj Govathoti, Sai Ganesh B, Amulya Srikantam and **G Dattatreya**, “Analysis of E-shaped Patch Antenna for Wireless Applications,” INCAP- 2018, Hyderabad.
  24. Sandhya Rani Sriram, **Dattatreya Gopi**, Ravi Kumar Palla and Kumar Naik Ketavath, “Design of Inverted U-shaped Radiating Patch Antenna for LTE/WiMAX Applications,” INCAP 2018, Hyderabad.
  25. **G. Dattatreya**, H. K. Raghu Vamsi, N. Monish Sai Krishna & Sekhar Babu Palli, “CPW-Fed Textile Antenna For Wearable Wireless Communication Applications”, 4th International web conference on emerging trends in arts, science, Engineering & Technology (IWCETASET-2020) held on 28th june.
  26. KARG Chandra Mouli, M Satya Anuradha, Darshana Kuppili, **Dattatreya Gopi**. “Analysis of rectangular and triangular microstrip antenna arrays using HFSS” INCEMIC-2015, 13th International Conference on Electromagnetic Interference and Compatibility, IEEE, Pages-25-31. DOI: 10.1109/INCEMIC.2015.8055840.
  27. **G. Dattatreya**, Ketavath Kumar Naik “Analysis of Vivaldi Antenna Etched

with Circular Patch and Ring Slot for Enhance Bandwidth”, Recent Advances in Microwaves, Antennas and Communications (RAMAC), Vijayawada, July 2016.

28. Ketavath Kumar Naik, **G. Dattatreya** “Analysis of Triangular Antenna with Two Annular Rings for Multi-band Applications”, Recent Advances in Microwaves, Antennas and Communications (RAMAC), Vijayawada, July 2016.
29. Ketavath Kumar Naik, **G. Dattatreya**, Srinivasa Reddy and PAV sri “Rectangular Slot Loaded Circular Patch With Defected Concentric Ring on Ground Plane for Ultra-Wideband Applications”, NCRCECT-2016, Sangivalasa, October 2016.

## Workshops/Conferences/Seminars/Symposiums organised

### Conferences/Symposiums

S. No	Name of the Programme	Dates	Sponsored by	Role
1.	A Motivation Session To Enrich Innovation Ideas Among Students	Sep 23th, 2022	Raghu Engineering College	Innovation Innovation activ
2.	Innovative Trends and Strat-up Planning in Pharma Industry	Oct 10th, 2022	Raghu Engineering College	Innovation Innovation activ

### Seminars, Workshops and STTPs

S. No	Name of the Programme	Dates	Sponsored by
1.	Electromagnetics and Microwave Engineering: Pedagogy, Research Trends And Applications (EMPRA) 2020	Dec 27-28	Birla Institute of Technology and Science (BITS), Pilani-Hyderabad.
2.	Artificial Intelligence And Signal Processing Using Matlab	Dec-5th	Organized by Math works, Hyderabad
3.	Matlab And Its Applications	February 04-09, 2019	AITAM, tekkali, Srikakulam.
4.	Intellectual Property Rights (IPRs)	December 10-12, 2018	K L University.
5.	Keysight Education Symposium 2018	2018	key sight technologies and syne measurement technologies pvt Ltd.
6.	Electromagnetic Compatibility	2012	SAMEER-Centre for electromagn environmental effects (E3), Visakhapatn A. P
7.	Recent Advances In Rf & Bio-Mems Devices For Engineering	2016	ISRO & DBT, Govt. of India at University

	Applications		
8.	Advances In Signal And Image Processing, Computer Vision	2017	AICTE-RPS
9.	EDUCATION 4.0	28th- 30th April-2020	IQAC, Atharva College of Engineering
10.	AUTOCAD for beginners	12th May-2020	Tagore Engineering College
11.	Faculty Awareness Programme on Outcome Based Education (OBE) and NBA Accreditation	8-5-2020	Sinhgad Institute of Technology Science, Narhe,Pune
12.	SCILAB an open source substitute for Matlab	25th May 2020 to 30th May-2020.	JNTUH College of Engineering Sultanpur, Sangareddy (Dt.) and sponsored tutorial project IIT Bombay
13.	Multi Carrier Modulation in Broadband Communication and Technology Challenges in 5G	29-05-2020 to 30-05-2020	Raghu Engineering College Visakhapatnam
14.	HADOOP and MACHINE LEARNING	20-05-2020	Mallareddy Institute of Technology Secunderabad.
15.	Effective Proposal Writing for Research and Funding	13th May to 18th May 2020	Institute of Technology & Research Centre, Nashik, Department Electronics & Telecommunication Engineering
16.	Recent Advances in Antennas and Applications (RAAA)	April 10-15, 2017	IETE vijayawada, organized Department of Electronics communication Engineering, KLEF, University
17.	Advanced Antenna Design Using HFSS	12-05-2020 to 17-05-2020	Santhiram Engineering College Nanded in collaboration with Vardhaman College of Engineering ,Hyderabad
18.	Antenna Design through Simulation using TaraNG 19.1	29th May-2020	Department of Electrical and Electronic Engineering, BITS Pilani, Rajasthan
19.	Startup Lifecycle and Patent Registration	18th - 19th May 2020.	ACE Innovation Cell, IPR Cell, AACE Institution Innovation Council- MHACE- Incubation Center- MSME, IEDST, ACE Ember Ecell NEN, Atharva College of Engineering
20.	Modern Antennas for Wireless Systems	22-24 May, 2020	Shri Ramdeobaba College Engineering and Management, Nagpur Department of Electronics Engineering
21.	3D EM Simulation Involving CST Software	18.05.2020 and 19.05.2020	Department of Electronics Communication Engineering, Venkateswara College of Engineering
22.	Reconfigurable Antenna	26.05.2020	Department of Electronics Communication Engineering

**Visit to outside institute/organization: Nil****Continuing Education / QIP Short Term Lectures / Special Lectures given:**

S. No.	Title of Lecture / Lecture Series	Place
1	Secure Intelligent Systems (NCSIS) Conference	20-21 January, Koneru Lakshmaiah Education Foundation Vaddeswaram, Andhra Pradesh.
2	Conformal antennas for wireless and biomedical applications	7th November 2020, Koneru Lakshmaiah Education Foundation, K L Deemed to be University.
3	Smart antennas for wireless communication using HFSS and CST	26th June 2021, Tirumala Engineering College, Guntur.
4	Innovative Trends and Strat-up Planning in Pharma Industry	Raghu college of Pharmacy, Visakhapatnam

**Details of professional training and research experience**

S.No.	Title of the Course	Place	Year	Duration
1	Senior Research Fellow	K L University	2017-2018	1 Year
2	Junior Research Fellow	K L University	2015-2017	2 Years
3	Design for Testability	Bangalore	2021	4 Months
4	Programmable Logic Controllers	GIAT	2009	1Month

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

S. No	Title of Project	Funding Agency	Financial Outlay	Project Period	Project Status
1.	3D printed Circularly Polarized antenna for Wireless Capsule endoscopy Applications	SERB	35 Lakhs	3 Years	Under Review
2	Modernization of Microwave and Antenna measurement Lab	AICTE	15 Lakhs	-	Under Review

**Awards and Honors**

1. Young Scientist Award, International Research Awards on Science, Health and Engineering-2020.
2. Best Researcher Award, DK International Research Foundation (DKIRF)-2020.
3. Researcher Excellence Award, Institute of Scholars (InSc)-2020.

## **Additional Responsibility**

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

1. Innovation Ambassador, Innovation activity Co-Ordinator, IIC-REC.
2. IEEE Vizag bay section, REC-SB Co-Ordinator.
3. Actively participated in the department project works.
4. Department extra circular activities coordinator.

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

#### **Editorial Board Member for various international Journals such as**

1. International Journal of Multidisciplinary Research and Modern Education / ISSN: 2454 – 6119
2. International Journal of Engineering Research and Modern Education / ISSN: 2455 – 4200
3. International Journal of Scientific Research and Modern Education / ISSN: 2455 – 5630
4. International Journal of Current Research and Modern Education / ISSN: 2455 – 5428
5. International Journal of Applied and Advanced Scientific Research / ISSN: 2456 – 3080
6. International Journal of Computational Research and Development / ISSN: 2456 – 3137
7. International Journal of Interdisciplinary Research in Arts and Humanities / ISSN: 2456 – 3145
8. International Journal of Advanced Trends in Engineering and Technology / ISSN: 2456 – 4664
9. International Journal of Recent Research and Applied Studies / ISSN: 2349 – 4891
10. Indo American Journal of Multidisciplinary Research and Review / ISSN: 2581 – 6292
11. Star Research – An International Online Journal / ISSN: 2321 – 676X

#### **Reviewer for various International Journals such as**

1. IEEE (Institute of Electrical and Electronics Engineers).
2. PIERS (progress in electromagnetics research).

3. International Journal of RF and Microwave Computer-Aided Engineering (Wiley publications).
4. ACES (Applied Computational Electromagnetics Society).
5. SN Applied Sciences (SNAS) Springer journal.
6. Journal of Ambient Intelligence and Humanized Computing (Springer journal).
7. International Journal of Antennas and Propagation (Hindawi).
8. Journal of Institute of Scholars (InSc)

**Member in:**

1. IEEE (Reg no: 97221861)
2. IRED (Institute of Research Engineers And Doctors) (Reg. No: AM10100055296).
3. IAENG (International Association of Engineers) (Reg no: 166155)
4. IASTER (International Academy for Science & Technology Education and Research (IASTER) (Reg No:16060218).
5. DKIRF(DK International Research Foundation)(BKIV-1/2018)
6. INSC (Institute of Scholars)(Insc 20200523)