



**Dr. R.V.S. Ramkrishna**

Software Lab,

Department of Electrical Engg

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### **Educational Qualifications**

1. Ph.D (Electronics) from Defence Institute of Advanced Technology (Deemed University under DRDO, Ministry of Defence) 2018
2. M.Tech (Power Systems) from Visvesvaraya National Institute of Technology, Nagpur, 2002
3. B.E (Electronics and Power Engg) from Shri Ramdeobaba K N Engg College, Nagpur, 1998

### **Professional Experience**

10 years Teaching, 2.5 years Industry (BSNL)

### **Subjects Taught:**

- |   |  |
|---|--|
| 1. Basic Electrical Engineering             | 7. Control Systems                       |
| 2. Analog and Digital Electronics           | 8. Electromagnetics & Transmission Lines |
| 3. Network Analysis and Synthesis           | 9. Power System Operation and Control    |
| 4. Numerical Methods & Computer Prog.       | 10. EHV AC Transmission                  |
| 5. Fundamentals of Microcontrollers         | 11. Digital Signal Processing (PG)       |
| 6. Advanced Microcontrollers & Applications | 12. Research Methodology (PG)            |

### **Research Areas:**

Electric Vehicles, Wireless Power Transfer, Antenna & Filter Design, Metamaterials, Image Processing.

**Current Portfolios:** Dept Coordinator, B.E. Project Coordinator, Dept NPTEL Coordinator

### **Recognition / Awards / Honors**

1. Ph.D fellowship from DIAT (DRDO)
2. Best Paper Award at IEEE technically co-sponsored conference on "Emerging Trends in Signal Processing and Communication Engineering" held at Aditya Institute of Technology and Management, A.P, 2015.
3. Reviewer for IEEE Access, Elsevier's International Journal on Electronics and Communication, Progress in Electromagnetic Research

### **Selected Publications**

1. Sayali R Polade and R V S Ramkrishna, "IoT based Solar Energy Grid Optimization", Journal of Control and Instrumentation, Vol. 8, No. 1, pp. 20 – 26, 2022.
2. Neha Aringale and R V S Ramkrishna, "Design of a hybrid energy storage system for an electric vehicle," 2021 International Conference on Disruptive Technologies for Multi-Disciplinary Research and Applications (CENTCON).
3. Urmila Mathure and R V S Ramkrishna, "Simulation of Maximum Efficiency Point Tracking in Wireless Power Transfer Systems using Pulse Density Modulation, "2020 Third International Conference on Multimedia Processing, Communication & Information Technology (MPCIT)
4. Pooja Chobe and R V S Ramkrishna, "Experimental Study on Coupling Enhancement of WPT System Using Negative Index Material", 2020 International Conference on Smart Innovations in Design, Environment, Management, Planning and Computing (ICSIDEMPC).
5. R V S Ramkrishna and Raj Kumar, "A compact microstrip-fed open slot antenna for dual slant polarization with good isolation," Journal of Electromagnetic Waves and Applications, Vol. 30, No. 11, pp. 1449 – 1464, 2016.
6. R.V.S. Ram Krishna and Raj Kumar, "A dual-polarized square ring slot antenna for UWB, imaging and radar applications," IEEE Antennas and Wireless Propagation Letters, Vol. 15, pp. 195 – 198, 2015.
7. R.V.S. Ram Krishna and Raj Kumar, "Slotted ground microstrip antenna with FSS reflector for high gain horizontal polarization," IET Electronics Letters, Vol. 51, No. 8, pp. 599 – 600, 2015.
8. Raj Kumar, Rajas K. and R.V.S. Ram Krishna, "A Horizontally Polarized Rectangular Stepped Slot Antenna for Ultra Wide Bandwidth with Boresight Radiation Patterns," IEEE Transactions on Antennas and Propagation, Vol.62, No.7, pp.203-209, 2014.

**Workshops / FDPs / STTPs Attended:**

1. FDP on G-Suite and Allied Tools in Education, Teaching & E-Content Development, Organized by SGBA University, Amravati from 29/06/2020 - 04/07/2020
2. FDP on German Language for Beginners - Level A1 Organized By NIT Nagpur from 29/06/2020 - 04/07/2020
3. FDP on Python 3.4.3 Organized By SBCOE Indapur in Assoc with IITB - Spoken Tutorial Project from 26/05/2020 - 30/05/2020
4. FDP on Modern Trends in Electric Drives Organized By NIT Nagpur from 19/05/2020 - 23/05/2020
5. Refresher Course on Analog and Digital Electronics Organized By NITTTR, Kolkata from 04/05/2020 - 08/05/2020
6. NPTEL Course on Computational Electromagnetics (IIT Madras) from 29/07/2019 - 18/10/2019
7. NPTEL Course on Principles and Techniques of Modern Radar Systems (IIT Kharagpur) from 29/07/2019 - 18/10/2019
8. NPTEL Course on Remote Sensing and Digital Image Processing of Satellite Data (IIT Roorkee) from 26/08/2019 - 18/10/2019
9. Certificate Course on Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System Organized by IIRS Dehradun from 04/09/2018 - 26/11/2018
10. Workshop on Project Based Learning Organized By KKW Institute of Engg, Nasik from 29/06/2018 - 30/06/2018
11. STTP on Physical Layer Techniques of 5G Wireless Communications Organized By SPM IIIT, Naya Raipur from 07/05/2018 - 11/05/2018
12. Workshop on Basics of Industrial Automation Using PLC & SCADA Organized By GES's R H S College of Engg, Nasik from 23/09/2016 - 25/09/2016

**Workshops / FDPs / STTPs / Conferences Conducted:**

1. Organizing Secretary for “National Conference on Energy and Mobility” NCEAM – 21, Dept of Electrical Engineering, R H Sapat College of Engineering, Management Studies and Research, Nasik, 23-24 Dec 2021.
2. Coordinator for Seminar on “Energy Storage Systems: Design and Challenges”, Dept of Electrical Engineering, R H Sapat College of Engineering, Management Studies and Research, Nasik, 24-25 Dec 2020.
3. Coordinator for Two Day Workshop on “Renewable Energy Systems: Design and Challenges”, Dept of Electrical Engineering, R H Sapat College of Engineering, Management Studies and Research, Nasik, 09-10 Aug 2019.