

Curriculum Vitae



Name: Mr. Rajesh Mitukula

Mother's Name: Smt. Padma

Father's Name: Sri Yadagiri

Date of Birth: 10-05-1990

Address for Communication

M.Rajesh

Asst. Prof (c), ECE Department
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Permanent Address

M.Rajesh S/o Yadagiri

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Educational Qualifications:

1. Pursuing Ph.D. in JNTUH in the Wireless Sensor Networks area
2. **M. Tech** (Digital Communications) – KITS, Warangal – Kakatiya University – 2013
3. **B. Tech** (E. C. E) – JBIET- JNTUH – 2011

Additional Qualifications:

1. Qualified in UGC-NET December 2013 & December 2014 for eligibility for Assistant Professor.
2. Qualified GATE-2011

Other Qualifications:

- Knowledge on MATLAB Programming
- Knowledge on Network Simulator (NetSim) and Multisim
- Knowledge on NS2, NS3, LabVIEW
- Knowledge on HFSS

Appreciation:

- Appreciated by Accendere Knowledge Management Services Pvt. Ltd for Implementation of Conceptual Research Internship Curriculum for REC Innovation Platform

Experience:

1. Worked as Assistant Professor in Aarushi Group of Institutions Warangal from 02/12/2013 to 04/06/2014.
2. Working as Assistant Professor © in JNTUCEH from 10th July 2014 to till date.

Total experience: 09 Years

Area of Interest:

- Wireless Sensor Networks
- Mobile Wireless Sensor Networks
- Ad hoc Wireless Networks
- Satellite Communications

Subjects Taught: 20 Subjects

1. Digital Communications
2. Cellular & Mobile Communications
3. Pulse and Digital Circuits
4. Integrated Circuits and Applications
5. Wireless Communication networks
6. Basic Electrical & Electronics engineering
7. Electronics devices and Circuits
8. Electronic Circuit Analysis

9. Electronic Measurements & Instrumentation
10. Radar Systems
11. Antennas and Wave Propagation
12. Analog Communications
13. Microwave Engineering
14. Coding Theory and Techniques
15. Advanced Computer Networks
16. Random Process and Queuing Theory
17. TCP/IP and ATM Networks
18. Advanced Data Communications
19. Networks Analysis and Transmission Lines
20. Analog and Digital Communications

Total No. of Papers (Journals & Conferences): 12

International Journals: 05

International Conferences: 05 National Conferences: 02

International Conferences:

1. Presented a poster with Titled as “**Wireless Transceiver Design for Wireless Body Area Networks**” in the two-day International Conference held at IST, JNTUH, 2016.
2. Presented a paper Titled as “**QoS based Data Dissemination in Wireless Sensor Networks**” in 5th International Conference on Research Trends in Engineering, Applied Science and Management (ICRTE SM-2017) on 23rd July, 2017.
3. Participated, Presented and Published a paper entitled “**Mobility based Multi hop Clustering Data Dissemination in Wireless Sensor Network**” in IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI)-2017 with catalog “CFP107M84-PRJ: 978-1-5386-0813-5” at **Chennai**, during 21st & 22nd September 2017.
4. Participated and published a paper entitled “**Performance Evolution of Optimal Routing Protocol for Ad-Hoc Wireless Networks**” in IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI)-2017 with catalog “CFP107M84-PRJ: 978-1-5386-0813-5” at **Chennai**, during 21st & 22nd September 2017.

5. Presented a paper Titled as “**Review: Data Dissemination Protocols for IoT**” in International Conference on Materials and Energy (ICME-2019) on 26th and 27th July, 2019.

National Conferences:

1. Presented a paper titled “**SMART CITY – A Survey**” in 33rd National Convention of Electronics and Telecommunication Engineers and National seminar on “Recent Advances in IoT” November 29-30, 2017 organized by The Institution of Engineers (India).
2. Presented a paper titled “**Implementation of Intelligent Home Wireless Sensor Networks (WSN) Monitoring and Control System using Zigbee Technology**” in National Conference on “Cashless Transactions using Computer and Communications” during 17th and 18th February 2017.

International Journals:

1. Published paper titled “**Design of NPR DFT Modulated Filter Bank Using Modified Newton’s Method**” by International Journal of Scientific Engineering & Technology Research. ISSN 2319-8885 Vol.02, Issue.12, Sept-2013, Pages: 1347-1353
2. Published paper titled “**Implementation of Intelligent Home Wireless Sensor Networks (WSN) Monitoring and Control System using Zigbee Technology**” by International Journal of Scientific Engineering & Technology Research. ISSN 2319-8885 Vol.06, Issue.32, February-2017, Pages 1448-1450
3. Published paper titled “**QoS based Data Dissemination in Wireless Sensor Networks**” in International Journal of Electronics, Electrical and Computational System IJEECS, ISSN 2348-117X Volume 6, Issue 7 July 2017, Pages: 264-268
4. Published paper titled “**Energy Efficient Mobility Aware Clustering Hybrid MAC Protocol in WSN**” by International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-6 March 2020.
5. Published paper titled “**Mobility Aware Adaptive Hybrid MAC Protocol for WSN**” in Int J Wireless Inf Networks 29, 157–166 (2022). <https://doi.org/10.1007/s10776-022-00553-y>

Refresher Courses / Workshops / Short Term Programs Participated: 27

1. Attended an Industrial & practical training on **“TV studio SET UP & Satellite Broadcasting”** in **Doordarshan Kendra, Warangal** from 24/12/2012 to 16/02/2013
2. Participated in Faculty Development program on **“Advanced Signal Processing Technologies in Communications (ASPTC) 2013”** conducted by E&CE, KITS, Warangal during 22nd and 23rd march 2013.
3. Participated In a Two-week ISTE workshop on **“ANALOG ELECTRONICS”** conducted by **IIT Kharagpur**, from 4th to 14th June 2013.
4. Participated in Two days workshop on **“Mentoring Skills and Thinking skills for Engineering Faculty”** held during 18-19, July 2014 organized under TEQIP-II in JNTUHCEH, Hyderabad.
5. Participated in **“National Conference on Communications, Signal processing and Systems (NCCSPS-2014)”** held during August 24-25, 2014 in JNTUHCEH.
6. Participated in One-week National level workshop on **“Ad-hoc Wireless Networks”** conducted by **JNTUHCEH**, from 4th to 9th May 2015.
7. Attended **“Awareness Workshop on “OUTCOME BASED EDUCATION AND ACCREDIATION”** on 14 September 2015 held at JNTUH.
8. Attended **WVITAE Tutorial Session on “IoT and Low Voltage Analog Design for Wireless Applications”** and **“Road to 5G Wireless Systems: Challenges Ahead vis-à-vis Progress Made”** conducted by **WPMC Global wireless summit 2015**, held on 13th December 2015.
9. Participated in International Conference conducted by **WPMC Global wireless summit 2015 held** on 13th to 16th December 2015.
10. Participated in One week Workshop on **“Smart Technologies and Emerging Trends”** conducted by **ESCI (India)**, at JNTUHCEH from 22-26 February 2016.
11. Participated in Three-day National level Workshop on **“Simulation of Wireless Networks using NS2”** from 26-28 May 2016 held at JNTUHCEH.
12. Participated One day Workshop on **“Research Trends in VLSI & Embedded Systems”** held on 5th November, 2016 at JNTUHCEH.

13. Participated and attended the **NGN Summit** 2017 on Telecom, IoT, Cyber ICT, held at HITECH, Hyderabad from 13th February to 15th February 2017.
14. Participated In a one-week Faculty Development Programme on “**Internet of Things (IoT)**” organized by **NIT Warangal**, from 8th to 13th May 2017.
15. Participated in a One Day Pre-Conference Workshop on “Computational Intelligence: Recent Trends” on 25th September, 2017.
16. Participated in One Week Faculty Awareness Program on “**Contemporary Research and IPR**” conducted by ECE Dept. JNTUH-CEH under TEQIP-III from 28th January to 1st February, 2019.
17. Participated in “Three-day National Level Hands-on Workshop on network simulator [ns-3]” conducted by the IETE students chapter held at PSG College of Technology from February 14-16, 2019.
18. Participated in “Two-day National Workshop on Preparing for NBA Accreditation & SAR filling” held on 18th and 19th, February, 2019 at JNTUHCEH.
19. Participated in “One day Sensitization Workshop on Equity Action Plan” organized by JNTUH on 11th July, 2019 under TEQIP-III.
20. Completed 1½ Week **NPTEL-AICTE** Faculty Development Programme on **Microwave Theory and Techniques** course Jul-Oct-2019.
21. Completed One Week National Faculty Development Programme and Online Training on “LaTeX” organized by Sanjay Ghodawat University, Kolhapur in association with Spoken Tutorial Project, IIT-Bombay during 27th April to 2nd May 2020.
22. Attended One Week Lecture series on “Recent Trends on RF & its applications” during June26-30, 2020 organized by IEEE Antenna & Propagation Society (APS) chapter- Jaipur & IEEE Rajasthan Subsection in association with Malaviya National Institute of Technology, Ajmer.
23. Completed One Week Faculty Development Programme on “Role of Machine Learning & Data Sciences in AI” organized by Department of CSE, MGIT, Hyderabad during 28th June to 2nd July 2020.
24. Participated in Three Weeks National Level Online STTP (Short Term Training Program) on “INTRODUCTION to RADAR SIGNAL PROCESSING” organized by the Department of Electronics and Communication Engineering, RISE Krishna Sai Prakasam Group of

Institutions, Ongole in association with IETE chapter from 01/07/2020 to 18/07/2020.

25. Participated and successfully Completed One Week Faculty Development Programme on “Online Spoken FDP on Advanced Communication laboratory” in association with industries from 20.07.2020 to 25.07.2020 organized by Department of ECE, PSNA college of Engineering & Technology, Dindigul.
26. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Medical Image Processing and 3D Applications" from 2021-07-05 to 2021-07-09 at University College of Engineering.
27. Participated in the Three-Day Online Workshop on "Procedures & Preparation of SSR for NAAC" held from 21st April 2022 to 23rd April 2022 organized by Internal Quality Assurance Cell (IQAC), Jawaharlal Nehru Technological University Hyderabad (JNTUH),

Certificate of Appreciation:

1. Participated in the quiz on ‘Covid-19’ Awareness Program and scored 80% organized by Unnat Bharat Abhiyan, Thiagarajar College of Engineering, Madurai, TamilNadu.
2. Participated in online Quiz competition and awareness on “Sports” organized by the Department of physical Education and Sports, Shikshan maharshi Guruvarya R.G Shinde Mahavidyalaya, Paranda, May 2020.
3. Successfully completed LaTeX test organized at Sanjay Ghodawat University by Nilesh Vijay Sabnis with course material provided by the Spoken Tutorial Project, IIT Bombay.
4. Successfully completed an Online Quiz on “Research Metrics in Scientific Publications” conducted on 26-6-2020 by MLR Institute of Technology with a score of 80%.
5. Participated and successfully completed the Online Technical Quiz on “Electrical and Electronics Engineering” conducted by Department of Electrical and Electronics Engineering, Veerappa Nisty Engineering College Shorapur on dated 04/07/2020.

6. Successfully completed online Technical Quiz on “ANALOG COMMUNICATIONS” conducted by the Department of Electronics and Communication Engineering, Vidya Jyothi Institute of Technology (Autonomous) on 6-7-2020.
7. Participated in A National level e-quiz on "Space Technology", organized by the Department of Electronics and Communication Engineering on 7/7/2020 with a passing score of 65%.
8. Successfully completed The National level E-Quiz Competition on “Digital Circuits” conducted on 07-07-2020 by NBKR Institute of Science Technology with score of 85%.
9. Successfully completed The National level E-Quiz Competition on “Signals & Systems” conducted on 08-07-2020 by NBKR Institute of Science Technology.

Webinars:

1. Participated in a Webinar on “HOW TO IMPROVE TEACHING SKILLS” on 24th June 2020 organized by Department of Electronics and Communication Engineering MLR Institute of Technology.
2. Successfully attended a Webinar on “Deep Learning for Automatic Speech Recognition” organized by Department of Electronics and Telecommunication Engineering on 26th June 2020 by AISSMS Institute of Information Technology.
3. Attended the Webinar on "LPWAN Communication in IIoT (Industrial IoT)" organized by SmartBridge in collaboration with SpaceAge Labs on 26th June 2020.
4. Attended the Webinar on "Digital Marketing 101" organized by IIDE (Indian Institute of Digital Education) on 27th June 2020.
5. Participated the LIVE WEBINAR on "IMPACT OF COVID19 ON THE FUTURE OF HIGHER EDUCATION - CHALLENGES AND OPPORTUNITIES" organized by Lead India Foundation (USA) on Saturday July 4, 2020 in collaboration with JNTU Hyderabad Alumni Association.

6. Participated National webinar on “Advanced Research and Funding Scope in the Emerging areas of Engineering Science and Technology” organized by FDP cell, ESCI on 24th July 2020.

SWAYAM-NPTEL Courses:

1. Completed Microwave Engineering Course during Jul-Oct-2019.
2. Completed Microwave Theory and Techniques Course during Jul-Oct-2019.

COURSERA Courses:

1. Successfully Completed Wireless Communications for Everybody by YONSEI University.
2. Successfully Completed Wireless Mind Control: Managing Your Mental Health During COVID-19 by University of Toronto.