

Name: **D. Ramesh Reddy**

Designation: Assistant Professor

Department: Electronics and Communication Engineering

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Experience (in years): 11

Teaching: 5

Research: 6

others (if any, specify): Nil



1. Educational / Technical qualifications:

| S.No | Level (UG / PG / Ph.D) | Year of passing | Specialization |
|------|------------------------|-----------------|---|
| 1 | Ph.D (NIT-Warangal) | On-going | -- |
| 2 | PG-Diploma | 2021 | Post-Graduation Diploma in Educational Technology Management (PGDETM) |
| 3 | M.Tech. | 2012 | Embedded Systems |
| 4 | B. Tech. | 2010 | Electronics and Communication Engineering |

2. Teaching and Learning:

2.1. Teaching Interests: IoT, Machine Learning, Digital Electronics, Basic Electronics, Analog Communication, Digital Communication, Microprocessors and Microcontrollers, Embedded Systems, Real Time Operating Systems, Embedded Systems, Real Time Operating Systems, IOT.

2.2. Novel Teaching & Learning Techniques adopted: WIT & WIL

2.3. Involvement in curriculum updating / Design: Nil

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies: Micro Controller Projects, Cricket, Reading Books.

3.2. CCA/ECA Organized: ECE Coordinator for Open house Project's Expo 2015, 2016 and 2017.

3.3. CCA/ECA participated: Nil

3.4. Counseling and Mentoring Activity: Mentoring 1st Year Students.

3.5. Committees involved in:

Department level: Open House Coordinator at department level, MTech Project Review Committee. In charge for Weekend Projects Lab, Internet of Things Lab.

Institute Level: Nil

4. Conference / Workshop / Seminar / Guest Lectures :

4.1. Conducted:

1. Organized IEEE VNR SB CAS CHAPTER "A Virtual Webinar on IoT" as Faculty Coordinator from 18-06-2020 to 24-06-2020.

2. Conducted workshop on "IOT Applications" in Convergence 2018 at VNRVJIET.

3. D. Ramesh Reddy Assistant Professor Dept. of ECE, acted as a resource person for three days refresher course on Internet of Things Scheduled from 12-05-2022 to 14-05-2022 at Bheema Institute of Technology Science, Adoni, Kurnool, Andhra Pradesh.

4. D. Ramesh Reddy Assistant Professor Dept. of ECE, acted as a resource person for "IoT applications in industries using ESP32 microcontroller" on 02-06-2022 at Engineering Staff College of India.

5. D. Ramesh Reddy Assistant Professor Dept. of ECE, acted as a resource person for Installing IoT laboratory and conducted workshop on Internet of Things Scheduled

from 21-10-2022 to 21-10-2022 at Bheema Institute of Technology Science, Adoni, Kurnool, Andhra Pradesh.

6. Organized two day hackathon on “IoT Sprint2k22” i.e on 4th and 5th November 2022.
7. Organized a Trivia Quiz for department of ece, on 30th December 2022.
8. Organized two day hacakthon on “Smart Campus 2k23”. I.e on 28th and 29th of April 2023.

4.2. Attended:

1. An International Expo& Conference on AI, IOT & Robotics by Ministry of Electronics and Information technology government of India and Telangana.
2. The AIR-Summit held at HICC on October 10th-12th 2017.
3. DEFTRONICS-2017 held at Park Hyatt Hyderabad.
4. A Two day ITRA-Water Closure Workshop from 10th- 11th July 2017 in IIT Hyderabad.
5. Attended Conference on IOT, Current and Future Trends Organized by Confederation of Indian Industry.
6. Attended 6-day workshop on "Internet of Things (IOT)" during Feb 27-March 4, 2017, National Institute of Technology and Warangal.
7. IE EE Blended Learning Course on Embedded Systems
8. D. Ramesh Reddy, Assistant Professor of VNR VJIET participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Sensors Technology" from 2020-8-17 to 2020-8-21 at St.Joseph's Institute of Technology.
9. D Ramesh Reddy Assistant Professor participated as program committee member and reviewer in the 2022 IEEE World Conference on Applied intelligence and Computing (AIC 2022) held during June 17-19, 2022.
10. D Ramesh Reddy Assistant Professor, dept. Of ECE, VNRVJIET mentored IEEE WIE PBL School studnets for writing research paper and awarded with third prize.
11. D. Ramesh Reddy presented a research paper titled "Design and Development of Pulse Oximeter Using Internet of Things" at the "6th International Conference on Intelligent Computing and Control System"(ICICCS 2022) on 26th May 2022.
12. D. Ramesh Reddy, Assistant Professor Participated workshop on “Research Proposal Writing” for department faculty by Prof Samrat L Sabat, director R & D, HCU on 25th March,2023.
13. D. Ramesh Reddy, Assistant Professor attended “Symposium on Electronics for Self-Reliance” at University of Hyderabad from 16-02-2023 to 17-02-2023.
14. D. Ramesh Reddy, Assistant Professor Participated “3d Computer vision summer school” at IIT Hyderabad from 14-05-2023 to 20-03-2023.

5.Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: 6

- Delivered a Lecture session as a Resource person for IEEE VNR SB CAS CHAPTER “A Virtual Webinar on IoT”on “Hands on session using IoT” at VNR VJIET-Hyderabad on 25-06-2020.
- Delivered a Lecture session as a Resource person for IEEE VNR SB CAS CHAPTER “A Virtual Webinar on IoT”on “Hardware and Applications of IoT” at VNR VJIET-Hyderabad on 24-06-2020.
- Delivered a Lecture session as a Resource person for DST Sponsored work shop on “Basics of Internet of Things and its applications” at MANUU-Hyderabad on 02-12-2019.

- Delivered lecture session as a Resource Person for UGC sponsored three week refreshment courses on “Introduction to Arduino Board” at UGC Human Resource development center, JNTU-Hyderabad on 09-10-2017.
- Delivered lecture session as a Resource Person for UGC sponsored three week refreshment courses on “Introduction to Raspberry PI Board” at UGC Human Resource development center, JNTU-Hyderabad on 17-10-2017.
- Delivered lecture session as a Resource Person for UGC sponsored three week refreshment courses on “Sensor Interfacing to Raspberry PI” at UGC Human Resource development center, JNTU-Hyderabad on 24-10-2017.

5.2. Articles/Chapters published in Books: Nil

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided:

a) UG: 23

b) PG: 11

5.5. Research Interests: Embedded System Applications, IoT, Machine learning.

5.6. Ph.D Students:

a) Enrolled: Nil

b) Submitted: Nil

c) Awarded: Nil

5.7. Papers published in reviewed journals:

| S.No | Title of the Paper | Journal Name Vol.No. PP | ISBN/ISSN No. | Impact Factor/ Citation Index | National/ International |
|------|---|--|--------------------|-------------------------------|-------------------------|
| 1 | Water Quality Measurement Using Hybrid Sensors | International Journal of Science and Research(IJSR) Volume 3 Issue 12, December 2014 | ISSN: 2319-7064 | Google Scholar 3.358 | International |
| 2 | Water Quality Monitoring And Controlling In Irrigation Using Zigbee Technology | International Journal of Science, Engineering and Technology Research (IJSETR) Volume 4, Issue 1, January 2015 | ISSN: 2278 – 7798 | Google Scholar NA | International |
| 3 | Raspberry Pi Based Surveillance & Live Monitoring Robot | International Journal of Advanced Technology and Innovative Research | ISSN 2348–2370 | Google Scholar NA | International |
| 4 | Smart Glasses for Blind - A Personal Assistant using Computer Vision, Artificial Intelligence | AutAut Research Journal | ISSN NO: 0005-0601 | Google Scholar | International |

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|---|--|--|-------------------|--------|---------------|
| 5 | Smart Navigation System with Pavement Hole Estimation using Clustering Technique | J - International Journal of Emerging Trends in Engineering Research | ISSN No.2347-3983 | Scopus | International |
|---|--|--|-------------------|--------|---------------|

5.8. Papers presented at National / International conferences:

| S.No | Title of the Paper | Names of the Conference/ Seminars | National/ International | Period |
|------|--|---|-------------------------|--------|
| 1 | Design and Implementation of Wireless Sensor Node for Water Quality Monitoring System | IEEE 4th International Conference on Computing, Communication and Sensor Network (CCSN-2015) | International | 2015 |
| 2 | Implementation of Wireless Sensor Network for Water Quality Measurements | IEEE 4th International Conference on Computing, Communication and Sensor Network (CCSN-2015) | International | 2015 |
| 3 | Development of IVRS for water quality parameters | IEEE 4th International Conference on Computing, Communication and Sensor Network (CCSN-2015) | International | 2015 |
| 4 | Internet of Things Based Pothole Detection System using Kinect Sensor | 2019 Third International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC) | International | 2019 |
| 5 | Plant Growth Prediction and Analysis using CNN with Suitable Activation Function | J- Sambodhi (UGC Care Journal) July-September (2020) | International | 2020 |
| 6 | Smart Saline Monitoring System for Automatic Control Flow Detection and Alertness Using IoT Application. | Congress on Intelligent Systems. CIS 2020. Advances in Intelligent Systems and Computing - In: Sharma H., Saraswat M., Yadav A., Kim J.H., Bansal J.C. (eds) and vol 1335. Springer, Singapore. https://doi.org/10.1007/978-981-33-6984-9_59 | International | 2021 |
| 7 | Design and Development of Pulse Oximeter Using Internet of Things | 6th International Conference on Intelligent Computing and Control Systems (ICICCS) - 2022 | International | 2022 |
| 8 | Convolutional Neural Networks for the | International Conference on Inventive Computation Technologies (ICICT) - 2022 | International | 2022 |

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|---|---|--|---------------|---------------|
| | Intuitive Identification of Plant Diseases | | | |
| 8 | Design and Development of a Low-Cost Crop Protection System Using the Internet of Things and Machine Learning | 2022 IEEE International Symposium on Smart Electronic Systems (iSES) | International | December 2022 |

5.9. Sponsored research Projects:

| S.No | Title | Agency | Period | Grant amount | Ongoing / Completed |
|------|---|---------------------------------------|-----------------------------|----------------|---------------------|
| 1 | Mobile Image Position and Performance Acquisition System | X_Design Ventures Pvt. Ltd, Hyderabad | 18-07-2011 to 18-12-2013 | Rs.15,00,000/- | Completed |
| 2 | Development of effective Wireless Sensor Network system for water quality and quantity monitoring (AquaSense) | ITRA, Media Lab Asia, Delhi | 5 Yrs (Jan. 2014-Dec. 2019) | 30.18 Lakhs | Completed |

5.10 Consultancy Projects:

| S.No | Title | Agency | Period | Sanctioned Amount | Ongoing / Completed |
|------|---|--|----------------------------------|-------------------|---------------------|
| 1 | “ROI_Booster” | Mira Consulting Inc Sdn Bhd, Kuala Lumpur, Malaysia, | Phase-I:16-3-2014 to 14-05-2015. | Rs.7,80,000/- | Completed |
| 2 | Developing VR Tour Warangal Heritage Sites | HRIDAY | 2019-2020 | Rs. 10,00,000/- | Completed |
| 3 | Design and Development of Machine Learning based IoT Device for Screening of Salt Tolerance in Plants | TSCOST | | Rs. 5,00,000/- | Submitted |
| 4. | Test bed for measurement of Air pollution in Telangana using Machine learning | TSCOST | | Rs. 5,00,000/- | Submitted |

| | | | | | |
|---|--|------|--|-----------------|------------|
| | algorithms and IOT | | | | |
| 5 | Screening of salt tolerance in plants using IoT and Machine Learning | MSME | | Rs. 18,00,000/- | Sanctioned |

6. Awards / Honors received:

- 1) Top 2% Percent in India for Introduction to Internet of Things Course in NPTEL.
- 2) Best Paper Award in the category of Internet of Things and Applications for the paper entitled "Smart Saline Monitoring System for Automatic Control Flow Detection and Alertness using IoT Applications" in Congress on Intelligent Systems held online during September 05-06, 2020 in India.
- 3) Received outstanding paper award for the paper entitled "Design and Development of an IoT based smart medication device" in 10th international Conference on Soft Computing for problem Solving (SocProS-2020).
- 4) D. Ramesh Reddy Asst. Prof. Dept of ECE received a sanction of Rs. 18 lakhs (Govt. of India 12.75 lakhs and 5.25 from Startup) from "MSME- Govt. of India" under "MSME Innovation Scheme" for his Ph.D. research work under the guidance of Dr. Prakash Kodali (NIT-Warangal).
- 5) D. Ramesh Reddy Assistant Professor, dept. Of ECE, VNRVJIET mentored IEEE WIE PBL School students for writing research paper and awarded with third prize.
- 6) D. Ramesh Reddy Assistant Professor received **letter of appreciation** for guiding student team for the project entitled Automated Weather Station (AWS) @ VNR VJIET and trained students to demonstrate the model to the 'NBA committee during 16th December 2022.

7. Motto: Dream Don't Work Unless You Do.

