



# Mrs. Ponugoti Usha Rani

## Assistant Professor



Education Qualifications: M.Tech (PhD)  
Specialization: Embedded Systems

### ADDRESS:

- C – Block -Room No - 207

### JNTUH ID:

8449-160216-153027

### EMAIL:

pusharani\_ece@mgit.ac.in

### DATE OF JOINING:

22-06-2012

### EXPERIENCE - 10 Years

- Teaching – 10 Y

### SUMMARY:

- Publications - 7
- Conferences - 3

### EVENTS:

- Attended - 48

### Membership of Professional Bodies:

1. Life Member of The Institution of Electronics and Telecommunication Engineers (IETE) F-502885.
2. Life member of Indian Society for Technical Education (ISTE) LM- 132275

### Responsibilities Held at Institution Level:

1. Anti-Ragging committee Member
2. Nirvana committee Member

### Responsibilities Held at Department Level:

1. Coordinator of Co-curricular & Extracurricular Activities for II Year ECE.
2. News Letter - Faculty Member, Editorial Board, Dept of ECE.
3. Lab In-charge for EDC Lab
4. Class In-charge

### Courses Handled at Under Graduate:

**UG:** Electronic Devices and Circuits, Basic Electronics, Electronic Circuits, Linear and Digital IC Applications, Switching Theory & Logic Design, Analog Electronics, Linear IC Applications, Pulse and Digital Circuits & Electronic Circuit Analysis.

### Publications:

1. **P.Usha Rani, “Footstep Power Generation Using Piezo Sensors”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), p-ISSN: 2320-6710, e-ISSN: 2319-8753, Volume 10, Issue 6, June 2021, DOI:10.15680/IJIRSET.2021.1006386, Pp- 8178 – 8181. (Impact Factor: 7.512) (UGC Care list-2)**
2. **Mrs. P. Usha Rani & Mrs.S.Swetha, “Complex Wavelet Features and Self Similarities for Action Recognition under Multiple Views”, PAIDEUMA JOURNAL, ISSN NO : 0090-5674, Vol XIV, Issue 5, May 2021, pp 28-35. Impact Factor:1.07 (UGC Care list-2)**
3. **Mrs.G.Srilatha & Mrs.P.Usha Rani, “Stability Trust Aware Clustered Routing (STACR) for Wireless Sensor Networks”, PAIDEUMA JOURNAL, ISSN NO: 0090-5674, Vol XIV, Issue 5, May 2021, pp 36-42. Impact Factor:1.07 (UGC Care list-2)**
4. **Mrs.P.Usha Rani & Mrs.S.Swetha, “Human Action Recognition Based On Hybrid Feature Vector and K-NN Algorithm”, Studia Rosenthaliana (Journal for the Study of Research), ISSN NO: 1781-7838, Volume XIII, Issue IV, April-2021, pp 16 – 23. Impact Factor: 4.9.1 (UGC Care list-2)**



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5. Mrs.G.Srilatha & Mrs.P.Usha Rani, “**NBA<sup>2</sup>D: Node Behaviour Assisted Adversary Detection in Wireless Sensor Networks**”, Studia Rosenthaliana (Journal for the Study of Research), ISSN NO: 1781-7838, Volume XIII, Issue IV, April-2021, pp 10 – 15. **Impact Factor: 4.9.1 (UGC Care list-2)**
6. **P. Usha Rani**, “**Segmented Depth Motion Map Assisted Human Action Recognition from Depth Action Videos**”, International Journal of Advanced Science and Technology (IJAST), Vol. 29, No. 8s, (2020), pp. 1850-1859. ISSN: 2005-4238, May 2020, SERSC Journals. **(UGC Care & Scopus) Impact Factor:0.41**
7. **P.Usha Rani**, “**A Novel Implementation of ARM based Design of Firewall to prevent SYN Flood Attack**”, International Journal of Computer Trends and Technology (IJCTT), ISSN: 2231 – 2803, Volume – 2, Issue 2, 2011.

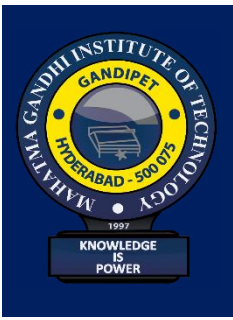
**Conferences:**

1. P.Usha Rani, submitted a paper titled, “**Orthogonal Ninety SIX Phase sequences Design for MIMO Radar**” to IACC-2017, Proceeding of 7th IEEE International Conference on Advance Computing Conference (IACC-17), ISBN:-978-93-5267- 908-9, 5-7 January 2017, Hyderabad, India.
2. P.Usha Rani, presented a paper titled, “**Review on Performances of Various Coded Sequence Set for MIMO Radar**”, in National Conference on Recent Advancement in Electronics (NCRAE 2016), conducted at IFHE campus, Hyderabad on Jan 22nd – 23rd, 2016.
3. P.Usha Rani, presented a paper titled, “**Thirty Six Phase code Design**”, in National Conference on Advanced Signal Processing, Embedded & Communication Systems (ASPECS-2016) jointly organized by Department of ECE, CBIT and Research Centre Imarat, DRDO, Hyderabad on 11th – 12th August 2016.

**Events Attended**

**FDPs/STTPs:**

1. Online FDP on "**Artificial intelligence, Machine learning and Deep learning Applications**", NIT Warangal during 7th to 31st January 2022.
2. Online FDP on "**AI & Machine Learning for IOT and Computer Vision Applications**", Electronics & ICT Academy, NIT Warangal in association with Anurag University, Hyderabad during 16th to 25th January 2022.
3. AICTE Training and Learning (ATAL) Academy Sponsored One Week FDP on "**Data Analytics and Machine Learning**", department of Computer Science & Technology (DCST), Central University of Jharkhand (CUJ) during 20th to 24th September 2021.
4. AICTE Training and Learning (ATAL) Academy Sponsored One Week Workshop on "**STRESS MANAGEMENT**", Dept. of CSE, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad during 13th to 17th September 2021.
5. AICTE Training and Learning (ATAL) Academy Sponsored One Week FDP on "**Signal Processing and Machine Learning towards**



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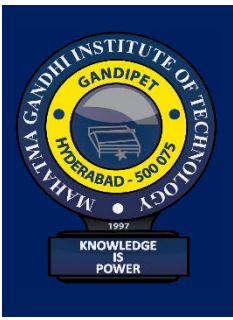
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**Engineering Applications"**, Dept. of ECE, North Eastern Regional Institute of Science and Technology (NERIST), Arunachal Pradesh during 23rd to 27th August 2021.

6. AICTE Training and Learning (ATAL) Academy Sponsored One Week Online Faculty Development Program (FDP) on **"Signal Processing and Machine Learning towards Engineering Applications"** organized by Dept. of ECE, North Eastern Regional Institute of Science and Technology (NERIST), Arunachal Pradesh, during 23rd to 27th August 2021.
7. One Week FDP on **"Research Opportunities in Image Processing and Machine Learning"** organized by ECE Dept., CBIT, Hyderabad during 29<sup>th</sup> June to 3<sup>rd</sup> July 2020.
8. Five Day FDP on **"Research Trends in Image Processing"** organized by GATES Institute of Technology, Ananthapuramu, A.P. during 15<sup>th</sup> to 19<sup>th</sup> June 2020.
9. AICTE Training And Learning (ATAL) Academy Sponsored FDP on **"Artificial Intelligence"** organized by NIT, Warangal during 8<sup>th</sup> to 12<sup>th</sup> June 2020.
10. Two week FDP on **"Deep Learning and Its Applications"** organized by Electronics and ICT Academy (E&ICT), IIT Roorkee during 11<sup>th</sup> to 20<sup>th</sup> May 2020.
11. One week FDP on **"ICT TOOLS"** organized by Sree Vidyanikethan Engineering College, Tirupathi during 11<sup>th</sup> to 16<sup>th</sup> May 2020 in Association with STP-IIT Bombay.
12. 3 day FDP on **"Machine Learning and Artificial Intelligence"** organized by Andhra Loyola Institute of Engineering & Technology, Vijayawada, A.P. during 4<sup>th</sup> to 6<sup>th</sup> May 2020.
13. International Faculty Development Program on **"Develop the Ability to Write Research Proposal"** organized by Adarsh Group of Institutions, AIMIT, Bengaluru, Karnataka on 24<sup>th</sup> April 2020.
14. AICTE Training And Learning (ATAL) Academy Sponsored One Week FDP on **"Data Science"** organized by IIIT, Nagpur during 18<sup>th</sup> to 22<sup>nd</sup> April 2020.
15. One Week FDP on **"IoT for Emerging Applications"** organized by ECE Dept., CBIT, Hyderabad in association with E&ICT Academy IIT Guwahati during 4<sup>th</sup> to 8<sup>th</sup> February 2020.
16. One Week FDP on **"E-CAD & VLSI DESIGN"** organized by ECE Dept. MGIT, Hyderabad, during 8<sup>th</sup> to 12<sup>th</sup> July 2019.
17. Two Week Faculty Development Program on **"Research Trend in Digital Image and video Processing"** sponsored by AICTE, conducted by Department of ECE, MGIT, Hyderabad during 4<sup>th</sup> to 16<sup>th</sup> December 2017.
18. Two Week Faculty Development Program on **"Recent Trends and Advancements in VLSI & Embedded Applications"** sponsored by AICTE at CBIT from 15<sup>th</sup> to 27<sup>th</sup> June 2015.



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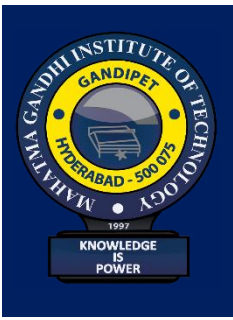
EVENTS:

- Attended - 48

19. One week Faculty Development Program on **“Digital Design using Verilog & VHDL”** conducted by Department of ECE, MGIT from 15<sup>th</sup> to 19<sup>th</sup> December 2014.

Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:

1. Webinar on **"Extreme Low Power Research Projects"**, The Institution of Electronics and Telecommunication Engineers, Hyderabad Centre on 13<sup>th</sup> March 2022.
2. Online International Webinar on **“Gender equality today for a sustainable tomorrow”**, WDC, MGIT on 8<sup>th</sup> March 2022.
3. Online Conference on **“AWSome Online Conference”**, Amazon Web Services, on 30<sup>th</sup> September 2021.
4. Four Day online Workshop on **"Design of Drones"** organized by Sreenidhi Institute of Science and Technology, Hyderabad during 26<sup>th</sup> to 29<sup>th</sup> May 2020.
5. Two day National Conference on **“Advanced Signal Processing, Embedded & Communication Systems (ASPECS-2016)”** jointly organized by Department of ECE, CBIT and Research Centre Imarat, DRDO, Hyderabad.
6. Webinar on **"Intellectual Property Rights and Patenting"**, organized by Start Core Technologies, Hyderabad on 10<sup>th</sup> April 2020.
7. Webinar on **"TECHNICAL PAPER WRITING AND PUBLISHING IN REPUTED JOURNALS"**, organized by Start Core Technologies, Hyderabad on 18<sup>th</sup> April 2020.
8. Webinar on **"NAAC Accreditation Management System Demo"**, organized by InPods Ed-tech on 17<sup>th</sup> April 2020.
9. Webinar on **"Sustainable Development Goals - Access to Improved Governance"** organized by Centre for Innovations in Public Systems (CIPS), Hyderabad on 18<sup>th</sup> April 2020.
10. Webinar on **"Artificial Intelligence, Data-Science and Machine Learning"**, organized by Start Core Technologies, Hyderabad on 19<sup>th</sup> April 2020.
11. Webinar on **"Online Teaching - Learning and Online Assessment Demo"**, organized by InPods Ed-tech on 29<sup>th</sup> April 2020.
12. Webinar on **"Building API with Python"**, organized by Codegnan IT Solutions OPC PVT. LTD., Hyderabad on 29<sup>th</sup> April 2020.
13. Webinar on **"Machine Learning with ScikitLearn"**, organized by Codegnan IT Solutions OPC PVT. LTD., Hyderabad on 1<sup>st</sup> May 2020.
14. Webinar on **"Data Integration and Transformation: A Portfolio Approach"**, organized by BrightTALK on 9<sup>th</sup> May 2020.
15. Webinar on **"Faculty Awareness Programme on Outcome Based Education (OBE) and NBA Accreditation"**, organized by Sinhgad Institute of Technology and Science, Narhe, Pune on 9<sup>th</sup> May 2020
16. Webinar on **"Challenges and Importance of e-Waste Management"**, organized by IEEE Communications Society Students Chapter, Sreenidhi Institute of Science and Technology, Hyderabad on 1<sup>st</sup> June 2020.
17. Webinar on **"NAAC Accreditation of Health Science Institutions"**, organized by InPods Ed-tech on 5<sup>th</sup> June 2020.



18. **Four Week Orientation Course** organized by UGC-HRDC, JNTU Hyderabad, sponsored by UGC-New Delhi during 08th May 2017 to 03rd June 2017 with "A" Grade.
19. Two Day Intensive Course on "**Applications of Signal Processing to Radar, Communication & EW Engineering**", organized on 2nd & 3rd March 2017 at CBIT, Gandipet, Hyderabad.

#### Online Certifications:

1. Course on "**Image Super Resolution GANs**", Udemy, completed on 25th March 2022.
2. Course on "**High Resolution Generative Adversarial Networks (GANs)**", Udemy, completed on 12th March 2022.
3. Course on "**Complete Python Based Image Processing and Computer Vision**", Udemy, completed on 15th February 2022.
4. Course on "**Machine Learning Onramp**", MathWorks, Training Services, **Sponsored by AICTE**, completed on 9th May 2020.
5. Course on "**Deep Learning Onramp**", MathWorks, Training Services, **Sponsored by AICTE**, completed on 12th May 2020.
6. Short Course on "**Learn to Design your own Solar Home System**", organized by **Energy Swaraj Foundation** on 27th June 2020.
7. Course on "**MATLAB Onramp**" MathWorks, Training Services, **Sponsored by AICTE**, completed on 5th May 2020.
8. Course on "**Programming for Everybody (Getting Started with Python)**", University of Michigan and offered through **COURSERA** completed on 25th April 2020.
9. **NPTEL** 12 week Course on "**Microprocessors and Microcontrollers**" conducted by NPTEL- AICTE, funded by Ministry of HRD, Govt. of India.
10. **NPTEL** 12 week Course on "**Microelectronics: Devices to Circuits**" conducted by NPTEL, IIT Madras, NPTEL- AICTE, funded by Ministry of HRD, Govt. of India.

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