

Name: Vandana Samanthula

Designation: Assistant Professor

Department: Electronics and Instrumentation Engineering

Mail.I.D: vandana_s@vnrvjiet.in



Experience (in years): Teaching: 14

1 Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.E	2004	Electronics and Instrumentation
2	M.Tech	2011	Embedded Systems
3	[PhD]---2015 Registered		Wireless Communications

2 Teaching and Learning:

2.1 Teaching Interests:

Digital Electronics, Industrial Instrumentation, Control Systems, Linear Integrated Circuit Applications, Electronic Measurements, PC Based Instrumentation, Robotics and Automation, Fundamentals of Robotics and Drones.

2.2 Novel Teaching & Learning Techniques adopted: Activity Based Learning , POGIL, WIT and WIL , Power point presentation .

2.2 Involvement in curriculum updating / Design:

3 Co-curricular and Extra-Curricular Activities

3.1 Professional Society Memberships:- ISOI,IEEE

3.2 Interests and Hobbies: Listening Music , Playing Badminton.

3.3 CCA/ECA Organized:

3.4 CCA/ECA participated:

3.5 Counseling and Mentoring Activity: Mentoring of around 20 students every year

3.6 Committees involved in:

Department level:

Department Admissions Coordinator, Department NAAC Coordinator, Teqip-II Coordinator, Open House Coordinator, Student Training Programmes Coordinator(Placements)

Institute Level:

4 Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted:

- A Two day workshop on Applications of Computer networks & Security during Nov 2015 at VNRVJIET, Hyderabad.
- A Four day training program on CiSCO Certified Network Associate during 30th Jan-2nd Feb 2017 at VNRVJIET, Hyderabad.

4.2 Attended:

- Three day workshop on Process Control Instrumentation during Sep 2007 at VNRVJIET, Hyderabad
- Three day workshop on Virtual Instrumentation during Nov 2008 at VNRVJIET, Hyderabad
- FDP programme on Entrepreneurship during June 2012 at VNRVJIET, Hyderabad.

- Two day workshop on Biomedical Signal Processing Using LABVIEW during Aug2012 Using LABVIEW
- Three day workshop on Art of Teaching during May 2013 at VNRVJIET, Hyderabad
- Five day training programme on Lab-VIEW Core-I and Core-II at NI Academy ,Bengaluru.
- Five Day Training program on MEMS during Dec2016 at VNRVJIET,Hyderabad.
- IEEE Blended Learning “Embedded Computing for IoT Systems” lasting from 4th November, 2018 to 02nd February, 2019.
- NPTEL Wireless Adhoc Networks and Introduction to IoT
- Python Workshop for Teachers and Research scholars on 22 June 2019 conducted by IIT Bombay
- One Day Main Workshop on Arduino on 8 February 2020 conducted by IIT Bombay
- Attended One Week FDP on Wireless and Mobile Communication conducted by E& ICT Academy NIT Warangal, at VNRVJIET, Hyderabad during 1st-6th July, 2019
- Attended One Week FDP on Python programming with Industry Perspective conducted by Electronics and ICT Academy, NIT Patna , and Dept. of ECE&EIE in Association with IEEE&ISTE, VNRVJIET, Hyderabad during 2nd-6th Dec ,2019
- Completed Teqip Online Certification on Digital Transformation in Teaching Learning Process. --(March 16th to March 30th 2020)
- Attending NPTEL-Joy of Computing Using Python (24th Jan to 22 nd April 2020)
- Udemy -Complete Python Boot Camp:Go from Zero to Hero in Python 3
- Attended FDP,15 IIC Online Sessions by Institutions Innovation Council, MHRD’s Innovation Cell from 28th April to 15th May2020
- Effective and Efficient Online Teaching in the Age of Corona, A Hands On 3 days Workshop attended online session on 17th May 2020 conducted by IIT Bombay
- Attended 3 Day Online FDP on AI and IoT for medical applications conducted by Department of ECE, GMRIT, Rajam, 1st-3rd June ,2020
- The BodhiTree and SAFE Tools for Effective Online Teaching A Hands On Workshop attended online session on 20th June 2020 conducted by IIT Bombay.
- Attended IEEE IoT:Train the trainers program at GRIET from 22nd November to 26th November 2021

5 Academic Contribution and Research & Consultancy:

5.1 Invited Lectures:

5.2 Articles /Chapters published in Books:

5.3 Books published as single author or as editor:

5.4 Projects Guided:

a) UG:12 b) PG:2

5.5 Research Interests: Wireless Communications

5.6 Ph.D students:

a) Enrolled: b) Submitted: c) Awarded:

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	Development of Coalmine safety system using wireless Sensor network.	IJCSE Vol 3, Issue 5, May 2011	ISSN: 0975-3397,	1.2	International
2	Flood Alert System Using IoT	IJCSE Vol 6, Issue 11, Nov 2018	E-ISSN: 2347-2693,	1.2	International
3	Routing Methodology for Secure Transmission of data in Physical Layer	IJITEE, Volume-9 Issue-2, December 2019	ISSN: 2278-3075	6	International
4	Performance of Ad Hoc Networks using Omni-Directional Antennas with Interference Alignment	IJEAT, Volume-9 Issue-2, December, 2019	ISSN: 2249 – 8958,	6	International
5	Smart Pillow	The International journal of analytical and experimental modal analysis Volume XII, Issue VIII, August/2020	ISSN NO:0886- 9367		International
6	PLC Operated Colour Based Product Sorting machine	IOP Conference Series: Materials Science and Engineering, Volume 1119, International Conference on Advances in Materials Science, Communication and Microelectronics (ICAMCM 2021)	ISSN: 1757-8981		International

7	Implementation Of Opinion Trust Algorithm For Secure Data Transmission In WANETs	Indian Journal of Computer Science and Engineering (IJCE), Vol. 12 Issue No. 5, Sep-Oct 2021	ISSN: 0976-5166		International
8	Conceptual Modeling of Narrow Band Communication System for Interference-Free Channel Allocation	International Journal of Engineering Trends and Technology(IJETT), Vol 70(7), pp. 329–338	ISSN: 2231– 5381		International

5.8 Papers presented at National / International Journals:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Synthesis and Image Matching On Structural Patterns Using Affine Transformation.	International Journal of Computer Science & Communication Networks	International	June 2012
2	3-D Image Reconstruction from 2-D Image Using Lab VIEW	International Journal of Engineering and Advanced Technology	International	April 2013
3	Collaborative Tsunami Detection System with Data Assimilation Using Lab-VIEW.	International Journal of Scientific & Engineering Research	International	July-2013
4	Embedded Swindle Recognition System	International Journal of Computer Applications	International	March 2017

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6.Awards / Honors received:

7.Motto: Work is Worship