

Name: Anita Kulkarni  
 Designation: Associate Professor  
 Department: EIE  
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Experience (in years): 22 years Teaching: 15years Research: 7 years Others:

**1. Educational / Technical qualifications:**

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	PhD	Pursuing	Wireless Communication
2	M.Tech	2010	Instrumentation & Control
3	B.E	1998	Instrumentation & Technology

**2. Teaching and Learning:**

Teaching Interests: Electronic Devices and Circuits, Electronic circuit analysis, Switching theory and Logic design, Microprocessors and Microcontrollers, Digital and Linear IC applications, Signals and Systems, Digital Signal Processing, PC based Instrumentation, Bio-Medical Instrumentation.

- 2.1. Novel Teaching & Learning Techniques adopted: learning and teaching through you tube, TED videos and MOOCs, Implementing WIT &WIL for 80% of the content and POGIL for few topics, Online teaching techniques like Google Meet, Google classroom and Microsoft team.
- 2.2. Involvement in curriculum updating / Design: Involvement in curriculum updating of UG during autonomous curriculum design and updation. Involvement in curriculum update of PG, Member of BOS

**3. Co-curricular and Extra-Curricular Activities**

- 3.1. Interests and Hobbies: Reading, listening to music, singing.
- 3.2. CCA/ECA Organized: Organized Industrial visit for II B.tech EIE to Coco Cola Pvt. Ltd. Hyderabad during 2019-20, organized guest lectures, Coordinated CLAD exam for IV B.Tech EIE students April2017,
- 3.3. CCA/ECA participated:
  - Internship for 3 batches of students during summer 2020
  - Active judge for intramurals for Crescendo, singing competitions during Convergence.
  - Accompanied II B.Tech students to industrial tour, Coca Cola Pvt Ltd, Hyderabad, Jan 2020
  - Accompanied II B.Tech students to industrial tour, Photonics Pvt Ltd, Hyderabad, March 2017
  - Accompanied II B.Tech students to industrial tour, Photonics Pvt Ltd, Hyderabad, 2016
  - World yoga day celebrations at VNRVJIET
  - Judge in Paper Presentations in Convergence, Different committees in Convergence.
  - Participated in singing during Women’s Day Celebrations Mar 2020.
- 3.4. Counseling and Mentoring Activity: Mentoring I, II, III, IV B Tech students.
- 3.5. Committees involved in:
  - Department level:

BOS member, CRC, Anti Ragging Committee, EC Lab in charge, NBA team member, Class Coordinator for II B.Tech EIE1

Institute Level:

ISO Coordinator of the department, AAC coordinator, Department BOS Member

#### **4. Conference / Workshop / Seminar / Guest Lectures :**

##### 4.1. Conducted:

- Conducted guest lecture on “Innovation in Instrumentation Engineering (Chandrayan 2) “for students of II B.Tech A & B Sections.
- Conducted Seminar on Introduction to Solar plant Installation for II B.Tech
- Conducted CLAD Training Certificate Course during Dec 12<sup>th</sup> to 17<sup>th</sup> 2017
- Conducted One week Certificate Course on LABVIEW 2015
- Conducted a Three Day Workshop on Biomedical Signal Processing in 2013

##### 4.2. Attended:

- Two-day NAAC sponsored workshop on “Enriching Quality of Academics & Research in Relevance to NEP-2020”, held during 24<sup>th</sup> to 25<sup>th</sup> Feb 2023 organized by VNRVJIET, Hyderabad.
- Completed NPTEL course of 12 weeks on “Introduction to IoT”, July-Oct 2022
- Attended 40 hours online FDP on “Research Challenges & hands on Practices in Data Analytics & AI”, sponsored by Electronics & ICT NIT Warangal, and VNRVJIET, during 21<sup>st</sup> to 31<sup>st</sup> July 2022
- Two - weeks Online Joint Faculty Development Programme on “IoT & Applications (Smart Systems)” organised by Electronics and ICT Academies held from 14 - 25 February, 2022
- Attended webinar on Academic Integrity for Research Scholars February 26, 2022
- Participated AI for Excellence by CVR college of Engg, during 25-26 Jun 2021
- AICTE sponsored STTP on AI MIMO mm Wave and Massive MIMO Applications for 5G Wireless Network using AI 26 April to 1<sup>st</sup> May 2021
- Attended AICTE sponsored one week STTP on “Empowering the Moral Values Ethics & Behavioral Attitudes in Teaching skills among Teachers “from 18-01-2021 to 23-01-2021
- Attended online TEQIP certification program on Digital transformation in teaching learning processes by AICTE
- ATAL Online FDP for one on IoT by IIIT Nagpur 30<sup>th</sup> Apr to 4<sup>th</sup> May 2020
- Four day Online Course on Examination Reforms by AICTE 22<sup>nd</sup> –25<sup>th</sup> April 2020
- Attended one month training program on Mathematics for machine learning at H&S Dept, VNRVJIET.
- FDP on ‘Artificial Intelligence and Machine Learning for Engineering Applications’, during 8<sup>th</sup> to 12<sup>th</sup> Jun 2020
- one week workshop on VNR Initiatives and Awareness on OBE from 6<sup>th</sup> July 2020 to 11<sup>th</sup> July 2020
- Attended Leadership talk with Dr.Pramod chief innovation office MHRD cell 16<sup>th</sup> May 2020
- 5 days Faculty Development Webinar, “Disruptive Technology” from 26<sup>th</sup> to 30<sup>th</sup>, May 2020 organized by the Dept of CSE, St. Peter’s Engineering College, Hyderabad.

- Five day online FDP on ‘Impact of Internet of Things on Society’, by Annamacharya Institute of Technology & Sciences, 25<sup>th</sup> –29<sup>th</sup> May, 2020
- Robotics and AI jointly organized by Electronics & ICT with VNRVJIET for 1 week-24<sup>th</sup> -28<sup>th</sup> 2019
- Python Workshop by ICT IIT Mumbai
- Workshop on MATLAB for Signal Processing for 1 week -17<sup>th</sup> to 26<sup>th</sup> Dec-18
- Attended a 10 day Workshop during 22-6-17 to 1-7-17 on “recent trends in Signal Processing & its Applications”, organized by VNRVJIET and NIT Warangal.
- Attended a workshop on “Machine learning”, Conducted by IIT Kharagpur-A\_View.
- Attended a Seminar on “Recent trends in LASER technology and its Applications”, Conducted by EIE department, VNR VJIRT 29 & 30 Nov 2017.
- Attended Three Day Workshop at NIT trichy, Tamil Nadu, on “English for Writing PhD Thesis and Journal Paper”, during 20-22 Jan 2016.
- Attended Workshop on MAT lab conducted by ECE dept & EEE dept, VNRVJIET.
- Various Workshops on Virtual Instrumentation, LABVIEW, PLC & SCADA, Research Methodologies & so on.
- Attended FDP & POGIL.
- Attended workshop on “Art of Living”.

#### 5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: Nil

5.2. Articles /Chapters published in Books: Nil

5.3. Books published as single author or as editor: Edited the book on Electronic Measurements (Pearson)

5.4. Projects Guided :

a) UG :39+                      b) PG : 07

5.5. Research Interests : Wireless communication, Signal Processing

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	Chest Radiograph based Pneumonia Detection Using Deep Convolutional Neural Networks	International Journal of Research Volume 11, Issue 04, pp. 480-487 April 2022	2236-6124	1.976	International
2	Improved Resource Scheduler using Kalman Filter	International Journal of Engineering Trends &	2231-5381	0.72	International

	in Wireless Communication	Technology, Volume 71 Issue 2 Feb 2023			
3	Switching Kalman filter based ECG signal processing for Fiducial points	International Journal of Advanced Research in Science, Engineering and Technology Oct 2019	Volume 6, Issue 10,	6.126	International
4	Kalman Filter Based Multiple Object Tracking System	International journal of Electronics, communication & instrumentation engineering research and development (IJECIERD); vol - 8, issue - 2; edition: Apr 2018 "	ISSN (online): 2249-7951; ISSN (print): 2249-684x	Impact factor(jcc) (2017): 6.7847; index copernicus value (icv) - (2016): 61.75; naas rating: 2.92;	International
5	Development and Comparison of Image Fusion Techniques for CT and MRI Images	Vol 6, Issue 7, pp 59-60 Jul-16	2248-9622		International
6	Automated system for Air pollution detection and Control in vehicles	IJAREEIE	2320-3765	-	International
7	Acquiring ECG signals and analysis for different heart ailments	IJRET	2319-1163	-	International
8	Unconstraint 2-Level Cost Optimization Coding for	International Journal of Advanced Trends in Computer	ISSN 2278-3091	3.980 SCOPUS indexed	International

	Signal Processing	Science and Engineering. Volume 8, No.1, January – February 2019			
9	Design Development and Implementation of Online Machine Vision Based System for Inspection of Pharmaceutical Blister packs	International Journal of Research Volume: VIII, Issue VI, Page- 1086 to 1092	ISSN No. 2236-6124	6.67	International
10	“Multiple object tracking Using Kalman Filter	International Journal of Electrical Electronics And Communication (IJEEC) Dec 2017	ISSN: 2048-1069		International
11	Image denoising using wavelet based Curvelet transform.	Under processing 2020			International

5.10. Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6. Awards / Honors received:

7. Motto: Work is Worship