Name: **K.Sangeetha**
Designation: Assistant Professor
Department: Electronics & Communication Engineering
Mail ID: sangeetha_k@vnrvjiet.in, sangeetha4k1@gmail.com
Experience (in years): Teaching: 21 yrs   Research: Nil
Others(if any, specify): Nil

1.Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D	Pursuing	Communication
2	M.Tech.	2005	Communication Systems
3	B.Tech.	1999	ECE
4	Secondary (10+2)	1995	Maths & Biology
5	10th	1993	Matriculation Board

2.Teaching and Learning:
   2.1.Teaching Interests:
      Electronic Devices & Circuits, Probability Theory and Stochastic Processes, Analog Communication, Analog & Digital Communication, Information Theory and Coding, Wireless Networks, Mobile Communication, Antenna & Wave Propagation, VLSI Design, Computer Networks, Pulse & Digital Circuits, Advanced Communications, Advanced Digital System Design and Digital Communication.
   2.3. Novel Teaching & Learning Techniques adopted:
      WIT & WIL , POGIL, PPTs, Videos, Story Board, Lab Protocol, Quiz, Mind map
   2.3. Involvement in curriculum updating / Design: EDC Lab

3. Co-curricular and Extra-Curricular Activities
   3.1. Interests and Hobbies: Listening Music
   3.2. CCA/ECA Organized: Ebullientz 2k14 & 2k15, kTalenta2k14, 10th Graduation Day (KCET)
   3.3. CCA/ECA participated: Sports
   3.4. Counseling and Mentoring Activity: UG Students
   3.5. Committees involved in:
      Department level: Department Exam Cell, Lab Incharge, Symposium Coordinator, Library Incharge, ECE Newsletter Incharge.
      Institute Level: Held as committee head for conducting Graduation Day &College Day, TimeTable Coordinator, Lab Stock Verification, Squad, Hostel Warden.

4.Conference / Workshop / Seminar / Guest Lectures :
   4.1.Conducted:
   - Workshop on "Modern Electronics Laboratory Theory, Practice & Maintenance" at Krishnasamy College of Engineering & Technology (KCET) on 4th& 5th January 2010.
   - Guest Lecture on "Simulation of Computer Networks using NS2" on 21st March 2011 at KCET.
   - Guest Lecture on "Fiber Optic Communication " & Inauguration of Society of Electronics & Communication Engineers" on 29th August 2011 at KCET.
   - Workshop on "Recent Trends in Embedded System Technologies" on 13th September

- National Level Conference on "Emerging Trends in Embedded Systems, Signal Processing and Communication Technologies" on 11th April 2012 at KCET.
- Guest Lecture on "Signal Processing using MATLAB & LABVIEW Software" on 29th September 2012 at KCET.
- Guest Lecture on "Fiber Optic Communication & EMF Radiation" on 5th August 2013 at KCET.
- Workshop on "Emerging Trends in Microwave Engineering & Signal Processing" on 13th September 2013 at KCET.
- Guest Lecture on "Fabrication of IC's and MEMS" on 22nd February 2014.
- National Level Technical Symposium "kTalenta 2k-14" on 13th & 14th March 2014 at KCET.
- Guest Lecture on "Photonics and Optoelectronics" on 6th August 2014 at KCET.
- National Level Technical Symposium "Ebullientz 2k-14" on 26th September 2014 at KCET.
- Guest Lecture on "Antenna and Wave Propagation" on 1st April 2015 at KCET.
- Guest Lecture on "Digital Signal Processing" on 25th July 2015 at KCET.
- National Level Technical Symposium "Ebullientz 2k-15" on 4th September 2015 at KCET.

4.2. Attended:

- Workshop on "MOBILE AD HOC NETWORKS" on 26th & 27th December 2002, at Anna University, Chennai.
- National Level Conference on "Emerging Trends in Electronics & Communication Engineering" – TECHON'08 on 8th April 2008 at IFET College of Engineering, Villupuram.
- Workshop on "Applied Mathematics in Engineeing Disciplines" at KCET on 22nd March 2012.
- Two day Staff Orientation Programme on 13th & 14th July 2012 at KCET.
- Two day Staff Orientation Programme on 2nd & 3rd July 2013 at KCET.
- Seminar on "ICT ACT Bridge Chennai Edition Skills for Education, Employability &Enterpreneurship" on 21st February 2013 at Trade Centre, Chennai.
- Two days Hands-on Training Program on "TMS320C6745 DSP" on 27th & 28th April 2015 by Pondicherry Engineering College.
- FDP on "Creative Thinking by ICTACT" on 29th & 30th June 2015 at KCET.
- FDP on "Recent Trends in Signal Processing & its Applications" Organized by E& ICT Academy, NIT, Warangal & VNRVJIET at VNRVJIET, from 22nd June to 1st July, 2017.
- Workshop on "MATLAB" at VNRVJIET from 07th June to 09th June, 2018.
- Workshop on "Scientific Writing using LATEX" at VNRVJIET on 12th June, 2018.
- Short term course on "Introduction to Programming : A pedagogical Approach" Organized by E& ICT Academy IIT Kanpur, at VNRVJIET, Hyderabad from 17th to 21st June, 2019
- FDP on "Wireless and Mobile Communication" Organized by E& ICT Academy NIT Warangal, at VNRVJIET, Hyderabad from 1st to 6th July, 2019.
- FDP on "Sensor Networks and IOT" Organized by E& ICT Academy NIT Warangal, at VNRVJIET, Hyderabad from 26th to 31st August, 2019.

- FDP on ""Python programming with Industry Perspective" Organized by E& ICT Academy NIT Warangal, at VNRVJIET, Hyderabad from 2nd to 6th December, 2019.
- FDP on "LaTeX& Technical Report Writing" Organized by Department of Mathematics Kakatiya University, Warangal, in Association with Spoken tutorial developed by IIT Bombay from 25th to 30th May, 2020.
- FDP on "Establishing Research Beyond Horizon" Organized by Research and Development Centre, N.K.T. National College of Education for Women, Chennai from26th to 30thMay,2020.
- FDP on "PYTHON 3.4.3" Organized by Vaagdevi College of Engineering in association with Spoken Tutorial IIT Bombay from 1st to 6th June, 2020.
- FDP on "Cyber Security" Organized by VNR VignanaJyothi Institute of Engineering & Technology in Association with Supraja Technologies from 02nd to 6th June, 2020.
- Workshop on "RF Design / VNA & Its Applications" Organized by Entuple Technologies from 16th to 18th June, 2020.
- Workshop on "Developing E-Content" Organized by Vaagdevi Engineering College from 18th to 19th June, 2020.
- "Effective and Efficient Online Teaching in the Age of Corona: A Hands-On Workshop" Organized by Methodist College of Engineering and Technology, Hyderabad through IIT Bombay BodhiTree Platform from 20th to 25th June, 2020.
- FDP on "IoT & Machine Learning" Organized by Department of ECE, G.Pulla Reddy Engineering College, Kurnool from 26th to 30th June, 2020.
- Workshop on"Effective online Teaching using ICT Tools" Organized by Department of CSE in collaboration with CSI,VNR VignanaJyothi Institute of Engineering &Technology (VNRVJIET) from 29th June to 04th July, 2020
- Two day International Virtual Conference on "Biomedical Engineering and Medical Imaging Systems" organized by Department of Biomedical Engineering in association with MHRD - Institution's Innovation Council from 06th July to 07th July 2020.
- National Level Online FDP on "Image Processing and Computer Vision-Industrial Scope" organized by the Department of ECE, Malineni Lakshmaiah Women's Engineering College, Guntur from 8th July to 12th July 2020.
- A Two Day National Webinar on "Online Teaching" organized by Department of H&S, VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad, 13th July to 14th July 2020.
- Webinar on "SIW Technology towards 5G Applications: Miniaturization, Design and Materials" organized by IEEE-MTTs SB-Chapter association with IEEE-SB, by Dr.Maurizio Bozzi, Professor, University of Pavia, Italy, on 14th July 2020.
- Five Day online PDP on "NBA in a Nutshell" organized by Department of ECE in Collaboration with IEEE SB,VNR Vignana Jyothi Institute of Engineering & Technology from 27th July to 31st July 2020.
- Two-week Online Faculty Development Programme on "Wireless Communication Technologies for IoT" jointly organised by Electronics and ICT Academies held from 27th July to 07th August, 2020 under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the

- Ministry of Electronics and Information Technology (MeitY), Government of India.
- Successfully completed "Programming for Everybody (Getting Started with Python)" an online non-credit course authorized by University of Michigan and offered through Coursera on 28th August 2020.
- Two-week Online Faculty Development Programme on "Demystifying 5G RF ASICs" jointly organised by Electronics and ICT Academies held from 24th August to 04th September 2020 under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Ministry of Electronics and Information Technology (MeitY), Government of India.
- Online Training Programme on "Digital tools for Writing, Authoring & Reviewing Manuscripts jointly" organized during 21st September and 2nd October 2020. Supported by Ministry of Electronics and Information Technology (MeitY) Electronics & ICT Academies MNIT Jaipur, NIT Patna & IIT Guwahati.
- Week Online AICTE Sponsored STTP Phase-I on "AI-MIMO Millimeter (mm) Wave and Massive MIMO Applications for 5G Wireless Networks using AI from 16th to 21st November 2020 organized by Department of ECE, GRIET.
- One Week Online AICTE Sponsored STTP(Phase-III) on "AI-MIMO: Millimeter (mm) Wave and Massive MIMO Applications for 5G Wireless Networks using AI. Sub Theme - Hands-On: Deep Learning Techniques for MIMO and Signal Processing from 25th January to 01st February 2021 organized by Department of ECE, GRIET.
- Five-Day Online FDP Sponsored by AICTE, New Delhi under ATAL Academy on "Challenges in Adapting Machine Learning towards 5G/6G Communications" from 9th to 13th August 2021 organized by Department of ECE, VNRVJIET & IEEE SPS.
- IUCEE ICTIEE 2022 Webinar on "Writing research papers on the Scholarship of Teaching and Learning" by Dr. Sohum Sohoni, Milwaukee School of Engineering on 12th July 2021.
- Successfully completed the NPTEL online Certification 8 week course on "An Introduction to Information Theory" with 50% from January to March 2021.
- Successfully completed the NPTEL online Certification 12 week course on "Introduction to Machine Learning" with 73% from January to April 2021.
- Successfully completed the NPTEL online Certification 12 week course on "Qualitative Research Methods and Research Writing" with 58% from January to April 2021.
- Successfully completed the NPTEL online Certification 12 week course on "Introduction to Wireless and Cellular Communications" with 69% from July to October 2021.
- Online FDP programme on "Emerging Techniques in 6G Wireless Communication" from 04th to 10th January 2023, organized by Department of Electronics and Communication Engineering, SRM Institute of Science and Technology, Tiruchirappalli Campus.

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: Nil

5.4. Projects Guided :   a) UG :24   b) PG :07

5.5. Research Interests : Wireless Communication, RF MEMS Phase Shifter

5.6. Ph.Dstudents : Nil

    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	Linguistic Sign Language Recognition Through Image Based Approach	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering(IJAREEIE),Vol 4, Issue 4, April 2015	ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875	1.68	International
2	Smart Windows for House Illumination	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering(IJAREEIE),Vol 4, Issue 4, April 2015	ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875	1.68	International
3	A Mecanum Wheel Based Robot Platform for Warehouse Automation	International Journal of Mechanical Engineering & Technology(IJMET),Vol 8, Issue 7, July 2017	ISSN Print: 0976-6340 ISSN Online: 0976-6359	1.25	International
4	Semi blind channel estimation with BCJR Algorithm in OFDM Systems	International Journal PENSEE, Vol 50, Issue 12 2020	ISSN NO: 0031-4773		International

5.8. Papers presented at National / International Conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Foot Neuropathy Analyser & Blood Flow Stimulator for diabetic patients	International Conference on Research vogues in Information & Communication Technologies	International	February 2014

2	Solar Smart Window with Optimized Time based Single Axis Tracking System	National Conference on "Innovative Trends in Electrical & Electronics Engineering(ITEE-2K15)	National	March 2015
3	An Improved Efficient Channel Reuse in Wireless Mesh Network with Enhanced Transmission Scheduling into Resource Allocation	International Journal of Emerging Technology in Computer Science & Electronics(IJETCSE)	International	May 2016
4	Spectral Efficiency of Non-Orthogonal Multiple Access over Orthogonal Frequency Division Multiple Access	International Journal of Analytical & Experimental Modal Analysis(IJAEMA)	International	April 2020
5	Automatic Detection and Localization of Breast Cancer from Mammogram Imaging Modality using Modified Faster RCNN	2023 5th International Conference on Smart Systems and Inventive Technology (ICSSIT)	International	March 2023

5.9. Sponsored research Projects: Nil

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects: Nil

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6. **Awards / Honors received:**
- One of the toppers(in 2%) in NPTEL Exam- Principles of Communication Part – I (96%) January-April 2019.
- One of the toppers (in 5%) in NPTEL Exam – Analog Communication (77%) July-October 2019.

7. **Motto:** Dedication towards our work. There is no substitute for hard work.