Name: **Dr. L. Padma Sree** Designation: Professor

Department: Electronics & Communication Engineering

Mail ID: padmasree\_l@vnrvjiet.in

Experience (in years): Teaching: 26 years Research: 15 years Others (If an

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.Tech.	1989	Electronics & Communication Engineering
2	M.Tech.	1997	Digital systems & computer electronics
3	Ph.D.	2010	Computer security

# 2. Teaching and Learning:

### 2.1. Teaching Interests:

Electronic Devices & Circuits, Analog circuits, Electronic Circuit Analysis, EM Waves & Transmission lines, Digital Communications, Digital System Design, Design of Fault Tolerant Systems

- 2.2. Novel Teaching & Learning Techniques adopted: Chalk and talk, WIT and WIL, Presentations, Group discussion, Surprise Tests
- 2.3. Involvement in curriculum updating / Design: Design of Course structure and syllabus updating

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

- 3.1. Interests and Hobbies: Yoga
- 3.2. CCA/ECA Organized:
- 3.3. CCA/ECA participated: practicing Yoga
- 3.4. Counseling and Mentoring Activity: Day-to-day
- 3.5. Committees involved in:

Department level: BOS member, NBA Co-Ordinator

Institute Level: Library Committee member

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

#### 4.1 Conducted:

 AICTE Sponsored Faculty Development programme on "Trends in Wireless communication Technology & Evolution of Simulation tools" from 11th May to 23rd May 2015.

#### .2 Attended:

- One-week Online Faculty Development Programme on "Design Thinking Problem Discovery to Real Solutions" conducted during 31st Aug. 4th Sept, 2021.
- One-week Online Faculty Development Programme on "Challenges in adapting Machine Learning Communications" from 9<sup>th</sup> Aug to 13<sup>th</sup> Aug , 2021.
- Program on Prof Kesav Nori's memorial service by IIITH on 2.6.21
- lecture program on State-of-the-art Silicon VLSI: Industrial Face of Nanotechnology. Organized by IEEE Hyderabad Section CAS/EDS Joint Society Chapter, supported by IEEE VNRVJIET SB, IEEE MJCET SB, and IEEE Vardhaman SB on 1st June, 2021,



- webinar on "5G technology and deployment across the globe" organized by AICTE on 28th May.2021.
- webinar on "REVISITING OUR TEACHING PHILOSOPHIES IN ONLINE ENVIRONS" organised by IEEE Education Society Chapter, IEEE Hyderabad Section, Hyderabad Section in collaboration with IEEE WIE-AG on 22nd May, 2021
- work shop on Developing on E-content organized by vaagdevi engineering college 18th-19th June, 2020
- FDP on Design thinking in Engineering education organized by CPADT, VNRVJIET15-20th june, 2020
- FDP on Artificial Intelligence and Machine learning for Engineering applications organized by CSE,IT,ECE Dept,VNRVJIET from 8-12 th june,2020
- International Webinar on "How toget Research Grants from UGC, AICTE (Minor or Major Research Projects Application Process)" organized by S&H dept, COVID -19 cell, MBITS on 9th June, 2020.
- Webinar on Image processing with artificial intelligence organized by LNCT, Bhopal on 8th June, 2020
- Python 3.4.3 training organized at Vaagdevi College of Engineering from 1.06.2020 -6.06.2020
- AICTE ATAL FDP on Internet of things organized by JNU,Delhi from 31.05.2020 -04.06.2020
- Hands on session on Latex-A Scientific Documenting Tool organized by VNR IEEE SB on 21st May,2020
- webinar on How the AGRI and IOT get connected organized by PANTECH on 19th May, 2020
- FDP on Python for machine learning organized by CSE Dept, VNRVJIET, Hyderabad from 18 th-23rd May, 2020
- Recognizing and coping with mental challenges: An overview organized by IEEE Hyderabad section, WIE and VNRVJIET SB on 16th May, 2020
- webinar on Research work flows, Research metrics & excellence in academic institutes organized by AICTE & Elsevier on 14th May ,2020
- online session with international Art of living Faculty organized by Mr. Vamsi Kosuri on 29 th-30 th April ,2020
- Webinar on A Pannel discussion on work from home and it's challenges organized by IEEE Hyderabad section, WIE and Education society chapter on 25th April, 2020
- "Python programming with Industry Perspective" organized by Electronics and ICT Academy, NIT Patna, and Dept. of ECE&EIE in Association with IEEE&ISTE, VNRVJIET, Hyderabad from 2nd-6th Dec,2019
- Sensor Networks and IOT organized by E& ICT Acdemy NIT Warangal, at VNRVJIET, Hyderabad from 26th-31st Aug ,2019
- VLSI Chip Design Hands on using open source EDA organized by E& ICT Acdemy IIT Guwahati at VNRVJIET, Hyderabad from 8th-12th July-2019.
- AICTE Sponsored Faculty Development programme on "Trends in Wireless communication Technology & Evolution of Simulation tools" from 11th May to 23rd May 2015.
- AICTE sponsored FDP on Real Time Embedded System Development at VNRVJIET.
- AICTE sponsored FDP on VLSI design at VNRVJIET.
- AICTE sponsored FDP on DSP Processor Architecture and programming at VNRVJIET.
- UGC sponsored refresher course on VLSI Design and Embedded systems at JNTU, Hyderabad.

- AICTE sponsored FDP on Real time signal and Image processing at VNRVJIET.
- Workshop on stochastic variables and stochastic processes at VNRVJIET.
- Workshop on VLSI and Design for Testability at Enhance Edu, IIIT, Hyderabad.
- Workshop on VLSI Design using FPGA's at VNRVJIET.
- Workshop on DSP processors at VNRVJIET.
- Workshop on Embedded systems at VNRVJIET.
- Work shop on Multi rate signal processing at VNRVJIET.
- Work shop on Lower power Embedded system using MSP 430 at VNRVJIET.

# 5. Academic Contribution and Research & Consultancy:

- 5.1. Invited Lectures:
  - Lecture on "overview of digital modulation Techniques in 2 week AICTE Sponsored Faculty Development programme on "Trends in Wireless communication Technology & Evolution of Simulation tools"
  - Session on Curriculum Design in Professional Development Program NBA in a nutshell from 27.07.2020-31.07.2020 organized by ECE department, VNRVJIET
- 5.2. Articles/Chapters published in Books: Two
- 5.3. Books published as single author or as editor: Nil
- 5.4. Projects Guided:
  - a) UG: 50
  - b) PG: 32
- 5.5. Research Interests: Computer Security, Neural Networks, Digital Systems, Communications, Wireless Sensor Networks
  - 5.6. Ph.D students:
    - a) Enrolled: Seven scholars
    - b) Submitted: Twoc) Awarded: Four
  - 5.7. Papers published in reviewed Journals:

S.N o	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISS N No.	Impact Factor/ Citation Index	National/ Internationa l
1.	Mining Multidimensional Rare Association Rules	IOSR Journal of Computer Engineering, Volume 24, Issue 2, PP 15-21	e-ISSN: 2278-0661, p-ISSN: 2278-8727	Mar –Apr. 2022	International
2.	Dynamic Support Range based Rare Pattern Mining over Data Streams	International Journal of Advanced Computer Science and Applications,		2022	International

		Vol. 13, No. 3, pp.660-667.			
3.	Eclat_RPGrowt h: Finding Rare Patterns Using Vertical Mining and Rare Pattern Tree	Lecture Notes on Data Engineering and Communication s Technologies	978-981- 16-0964	June 2021	International
4.	Deep Learning For Biological Cell Tracking In Microscopy Images: A Recent Survey	GIS science journal ,Volume 8,Issue 2, (Scopus) Page No: 183-194	1869- 9391	2021	International
5.	Efficient Hamming Code Encoder & Decoder Using True Random Number Generator	Turkish Online Journal of Qualitative Inquiry , Volume 12, Issue5, pp: 3609-3618	e-ISSN 1309- 6591	May 2021	International
6.	Real Time Vision System for Autonomous Vehicles	International Information andEngineering Technology Association	0392-8764	December,202	International
7.	Incremental learning for Text Categorization using Rough set boundary based Optimized Support Vector Neural Network	Data Technologies and Applications	25149288	June,2020	International

8.	A new text categorisation strategy: prototype design and experimental analysis	International Journal of Knowledge and Learning (InderScience)	1741-1017	April,2020	International
9.	Development of Text to Speech Conversion System for Low Vision and Blind People	International Journal of Innovative Technology and Exploring Engineering	2278-3075	April 2020	International
10.	Multi-stage Key Management Scheme for Cluster based WSN	International Journal of Communication Networks and Information Security	2076-0930	December,201	International
11.	Performance Analysis of Carry Skip Adder using FinFET and CNTFET",	International Journal of Technical Innovation in Modern Engineering & Science	2455- 2585	August-2018	International
12.	Implementation of Clustering Algorithms for real Data Sets in Medical Diagnostics using MATLAB	Journal of soft computing and applications	2195-576X	June 2017	International
13.	VLSI Implementation of Eye Detection System".	International Journal of Advanced Engineering	2349-6495	Jan, 2017	International

		Research and Science			
14.	Improvement of clustering by modification of degrees of fuzziness	Journal of Nechetkie Sistemy i Myagkie Vychisleniya	1819-4362	Dec 2016	International
15.	Survey of Text Mining Techniques, Challenges and their Applications	International journal of computer applications	2250-1797	2016.	International
16	An Optimized Device Sizing Of Two stage Cmos Op-Amp Using Multi-objective Genetic Algorithm	International Journal on Cybernetics & Informatics	2320 - 8430	August 2016	International
17	Key Management Schemes in Wireless Sensor Networks: A Survey	International Journal of Wireless Communication	2231-1254	May 2016	International
18	A Novel Methodology of Simulation and realization of various OPAMP topologies in 0.18µ m CMOS Technology using MATLAB	International Journal of VLSI Design & Communication Systems	0976 - 1357	October 2015	International
19	Implementation of ON chip Network protocol AMBAAHB	International Journal of Advanced Research in Computer and Communications Engineering	2278-1021	3.885	International
20	Probabilistic Rough Classification in Information Systems with Fuzzy Decision	International Journal of Science and Research	2319-7064	4.438	International

	Attributes				
21.	Design of low- voltage, high-gain operational amplifier for data converters	Progress In Science and Engineering Research Journal	2347-6680	3.565	International
22	Design, Comparison and Implementation of Multipliers on FPGA	International Journal of Engineering and Technical Research	2321-0869	1.315	International
23	Design and Development of accelerometer based system for driver safety	International Journal of Science Engineering and Technology Research	2278-7798	2.753	International
24.	An efficient implementation of Floating point multiplier using vedic mathematics	International Journal of Science Engineering and Technology Research	2319-8885	2.453	International
25.	CHIPSCOPE Implementation of CRC circuit architecture	IOSR Journal of VLSI and Signal Processing	2319-4200	0.64	International
26	FPGA implementation of Interrupt Controller using Verilog HDL	International Journal of Computer Applications	0975- 888	0.814	International
27.	Anomaly Detection Using Signature File Method And Temporal Relations	Indian Journal of Current Sciences	0972-6101	1.2	National
28.	Vendor Management in Digital Libraries	GITAM Journal of management	0972-740	1.5	National

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ Internationa l	Period
1	Enhancement with Deep Learning and Intensity Transformation of No-Reference Image Grayscale Fluorescence Microscopy Images	International Conference on Recent Innovations in Computing	International	2023
2	Segmentation of Cell Nuclei in Microscopy Images using Modified ResUNet	IEEE 3 <sup>rd</sup> global conference for advancement in technology	International	October 7-9,2022
3	Comparative Analysis of Simulation and Formal Verification for an Arithmetic Logic Unit	International Conference on Emerging Trends in Information and Communication Technology	International	June 4- 5,2021
4	Dynamic and probabilistic key management for distributed wireless sensor networks	IEEE International Conference on Computational Intelligence and Computing Research	International	15-17 Dec. 2016
5	Rough set based Feature Selection based Text Mining	2nd International Conference on Contemporary Computing and Informatics	International	Dec 14, 2016
6	An automated Synthesis of various Opamp topologies in 0.18µ m CMOS Technology using MATLAB	IEEE International Advance Computing Conference	International	27-28 Feb 2016
7	A Multi Objective Genetic Algorithm for the Optimization of CMOS Operational amplifier	International conference on Communication s, Signal processing Computing and Information Technologies	International	October 2015.

	Intrusion Detection Using Dynamic	International	International	1 <sup>st</sup> -3 <sup>rd</sup>
	Neural networks	conference on	International	Oct 2005
8	Treutar networks	Current Trends		OCt 2003
0		of Information		
		Technology		
	Signature based Duplicate detection	International	International	18-20 <sup>th</sup>
	Signature based Dupheate detection	Conference on	International	Nov,200
9		universal Digital		6
		Libraries		U
	Host Intrusion Prevention System	IEEE	International	6 <sup>th</sup> -7 <sup>th</sup>
	Using Signature File Method	International	International	Mar,
10	Osing Signature The Method	Advance		2009
10		Computing		2009
		Conference		
	Minimized Demoga Cost Approach	International	International	10th-12 <sup>th</sup>
	Minimized Damage Cost Approach for Host Based Intrusion Detection	Conference on	International	Dec,
	Tor Host Based Illitusion Detection	Electronic		2009
11				2009
		Design and		
		Signal		
	An Internative System for Danslysed	Processing International	International	Dec-24 <sup>th</sup> -
	An Interactive System for Paralysed	Conference on	International	25 <sup>th</sup> 2015
	Patients Based on Eye Blink			25 2015
12		'Computing, Communication		
		and Sensor		
	Denote a servicio de mala Minine C. 14	Network	T., 4	2014
	Rare association rule Mining for data	International	International	2014
12	stream	conference on		
13		Computer and		
		Communication		
		technologies		

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
1.	Design and Development of Knowledge based expert system to assist farmers for maintenance of Agricultural field using aerial data acquisition	TSCOST-DST	One year (March 2022-Mar 2023)	Rs. 4, 00,000/-	Completed
2.	Development and Implementation of Algorithm for real	University Grants Commission (UGC)	2 Years (Aug.2014- Aug 2016)	Rs. 3, 00,000/-	Completed

time home			
automation sys	tem		
to assist paraly	zed		
patients using	Eye		
blinking			

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6. Awards / Honors received: Nil

**7. Motto:** Hard work