

Name: **DR. YARLAGADDA PADMA SAI**

Designation: Professor and Head of the Department &
Dean Students Progression

Department: Electronics and Communication Engineering.

Experience (in years): Teaching: 20, Research: 11, Others (If any, Specify):
Industry-5Yrs.



1. Educational/ Technical Qualifications

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph. D	2009	ECE (Bio-Medical Signal Processing)
2	M.E	1998	Systems and Signal Processing
3	B.Tech	1989	ECE

2. Teaching and Learning

2.1. Teaching Interests: - Signals and Systems, - Digital Signal processing, - Analog Communications - Digital Communications, - Satellite Communications, - Digital Image Processing- DSP Processors and Architectures, -Advanced Digital Signal processing -Image and Video Processing

2.2. Novel Teaching & Learning Techniques adopted: WIT & WIL, LBD, Project based learning

2.3. Involvement in curriculum updating / Design: Actively involved in the designing of Course Structure and Syllabus since the college has attained autonomy.

Involved in Preparation of PEOs, POs and COs

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- Networking and Social Service
- Finding the industry partners and establishing rapport between institute and industry partners and active involvement in the execution of projects

3.2. CCA/ECA Organized:

- Actively involved in smooth conduction of Institute Fests and Open House
- Organized various certificate courses like IOT, Networking and Networking & Security
- Organized ISTE- AP & TS sections 11th Annual Convention and Awards Function-2016 on 2nd March 2017 at VNRVJIET and received 3 awards
- VRES Best Teacher award to Dr. G. Ramesh Chandra, Prof, CSE.
- GEC ideal student of excellence award to our student Mr.S.R.Sai Krishna, ECE.
- AITM Best innovator award to Mr. S.R. Sai Kaustub and team, ME.
- VNRVJIET got ISTE Best Chapter award for Telangana Section-2016 at 46th ISTE National Annual Convention during 10th -12th Feb2017, Gulzar Group of Institutes, Ludhiana.
- Organized one week workshop on “IOT and Embedded Systems” during 20th -25th Feb.2017 in collaboration with FICE Educational Institute, Bangalore.
- Organized the 7th IEEE International Advance Computing Conference (IACC 2017) during 5th -7th Jan.2017 by VNRVJIET along with IEEE Computer Society India Council.

- Organizing Member and Guest of the ISTE State Level Student Convention – 2016 during 27 – 28th October 2016, being conducted jointly by the AP & TS Sections of ISTE at Mahatma Gandhi Institute of Technology (MGIT), Hyderabad.
- Organized Project Expo by IV. B.Tech ECE students 27th -28th Oct 2016
- Organizing Member and chief Guest at Malla Reddy Institute of Technology and Science (MRITS), Hyderabad, for the celebrations of ISTE Annual Day 2016 on 20-July- 2016
- Convener for National fest convergence organized by all professional chapters of VNRVJIET in 2015-16
- Attend as a guest of honor for the inaugural function of ISTE Supported One week short term training program on Internet & Digital Convergence in India-Crafting the Future on 10th June 2015(10-14th),Organized by Methodist College of Engineering and Technology, Abids, Hyderabad 500001
- Attend inaugural function of ISTE Students Chapter of Joginpally B.R.Engineering College on 30th July, 2015 as Chief Guest
- Organizing member and guest of 10th ISTE AP & TS Section Annual Convention and Awards function- 2015 on 29th December 2015 at seminar Hall of G.Pullaiah College of Engineering & Technology (GPCET) Kurnool
- Organizing Member and Guest of the 11th ISTE State Level Student Convention – 2015 on 20thFebruary 2016, being conducted jointly by the AP & TS Sections of ISTE at Brindavan Institute of Technology & Science(BITS)-Kurnool.
- Coordinator for National fest convergence organized by all professional chapters of VNRVJIET in 2009-11 and co-convener for 2012-2013& 2013-14
- Organized ISTE- AP section 5th Annual Convention and Awards Function-2010 at VNRVJIET

3.3. CCA/ECA participated:

- Member IEEE
- Fellow of IETE
- Fellow of IEI
- Life member of Indian Society for Technical Education(ISTE)
- Life member of Instrumentation Society of India (ISOI)
- Life Member ASIC Association
- Member Short term training program committee IETE Hyderabad (2013-14)
- Secretary cum Treasure ISTE Telangana Section 2015-2017
- Executive Member ISTE AP Section for 2012-2014
- Initiated to start IUCEE consortium membership in 2014
- Initiated to start IETE Student forum in 2010 and Institute Membership of IETE
- Member women Empowerment in engineering committee IETE-2014-2016
- Chairman of ISTE faculty chapter, Faculty advisor for Student chapter of ISTE, IETE
- Branch Counselor of IEEE student Branch
- Actively involved in Convergence, Annual day, Culture day and Sport day

3.4. Counseling and Mentoring Activity:

- Counseling the needy students and monitoring their progress in attendance as well in performance

3.5. Committees involved in:

Department level:

- Chairman BoS from 2012 to till date
- Member BoS (2 years 2010-12)
- Department Development Committee
- Department Academic Committee
- Class Review Committee

Institute Level:

- Member Academic Council
- Member Research Committee
- Member of Institute Academic Committee from 2008 to till date
- Project Coordinator for M/S. Ananth Technologies Ltd.- 2009 – Till Date
- Coordinator -IIPC (2010-2013)
- Member Canteen and Library committee -2008-2013

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted : 66

4.2 Attended: 84

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

- Delivered guest lecture on Epilepsy detection using wavelet Transforms on 11th September, 2009 at Bio-Medical Department, College of Engineering,, OU Campus , Hyderabad
- Delivered a lecture on the occasion of 2-day Short-Term Course on “Image Processing and Current Trends” at IETE center, OU Campus, Hyderabad during 12- 13th SEP. 2009, on Image Compression Techniques 13th Sep. 2009
- Delivered a lecture on the occasion of 2 day workshop on Image Processing and Current Trends during 21-22 August 2010, BITS-Pilani, Hyderabad Campus on Image Compression Techniques on 22nd August, 2010.
- Delivered a lecture on the occasion of 2-day Short-Term Course on “Image Processing and Current Trends” at IETE center, OU Campus, Hyderabad during 19th and 20th February, 2011 on Image Compression Redundancies and their removal method 20th Feb. 2011
- Delivered a Lecture on “Overview of communications” at Malla Reddy engineering college 20th February 2012.
- Delivered Lectures at VNRVJIET In various FDPs/Workshops
- Delivered Lectures at university of Hyderabad for post graduate Diploma in Telecommunications for the subject Digital signal processing in Telecommunications during 30th Sep-3rd Oct. 2013
- Delivered classes at University of Hyderabad to the contact program for the Post graduate diploma in Telecommunication (PGDTC), which is scheduled during 12 – 18 Sep.,

2014. And delivered six lectures (each of 90 minutes) for the course No DTC-413(Digital Signal Processing) to the participants.The following topics are covered

Block- 1: Signals and Systems

Block-2 : Z-Transforms and Discrete Time Fourier Transform

Block-3: Digital Filters

- Delivered Lecture on Role of Wavelet Transforms in Bio-Medical Signal processing on 25th Sep. 2014 sponsored by UGC, New Delhi, one week Short Term Course on “Wavelets and its applications” organized by the UGC-Academic Staff College, JNTU Hyderabad during 22-09-2014 to 27-09-2014.
- Delivered a talk on Internet of Things (one session)on 10th June,2015, for ISTE Supported One Week Short Term Training Program on Internet & Digital Convergence in India-Crafting the Future Organized by Methodist College of Engineering and Technology, Abids, Hyderabad during 10-14th JUNE 2015
- Delivered a lecture on Image compression on 7th Jan. 2016(11.00 AM-12.30 PM), 5-Day FDP on Digital Image & Video Processing held during 4th to 8th January, 2016 at MVSR Engineering college.

5.2. Articles/Chapters published in Books:

- ECG Signal Preprocessing based on Empirical Mode Decomposition, International Conference on Microelectronics Electromagnetics and Telecommunication (ICMEET-2015), 18th -19th December 2015 . Published by Springer India in Lecture Notes in Electrical Engineering 372,DOI 10.1007/978-81-322- 2728-1_64,673-779
- FPGA Based Arrhythmia Detection, 3rd International Conference on Recent trends in Computing-2015 (ICRTC)-2015, Published by Elsevier B.V in Procedia Computer Science Aug.2015, Vol.57,pp. 970 – 979(Available online at www.sciencedirect.com),Aug.2015, DOI:10.1016/j.procs.2015.07.495

5.3. Books published as single author or as editor:

- 7th IEEE International Advance Computing Conference (IACC-2017) proceedings with ISBN No: 978-93-5267-908-9
- 7th IEEE International Advance Computing Conference (IACC-2017) Proceedings

a) UG: 40 Batches

- 5 of 3rd Year ECE students were adjudged as the winners out of 95 students in the college - level Texas Instruments Innovation Challenge –India Analog Design Contest - 2014 held at VNRVJIET Hyderabad during 16th Sep – 12th Oct 2013. Conducted byTEXAS Instruments India University Program in association with Cranes Software Internal Limited & VNR VJIET Hyderabad. As a Mentor
- 4 of 3rd Year ECE students were adjudged as the winners out of 95 students in the college - level Texas Instruments India Analog Maker Competition 2014 held at VNRVJIET Hyderabad during 16th Sep – 12th Oct 2014. Conducted byTEXAS Instruments India University Program in association with M/s Starcom Information Technology Limited& VNR VJIET Hyderabad. As a Mentor

b) PG:31

- Bio-Medical, Signal and Image Processing, Wavelet Transforms

5.6. Ph.D students:

a) Enrolled :08

b) Submitted :Nil

c) Awarded : One of the Scholar Vijaya Kumar Gurralla, Asst. Professor, ECE received an amount of Rs.440000/- for UGC Minor Research project titled “Development and implementation of Atomized system for the detection of the Sleep Disorders using EEG Analysis.

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	EEG Analysis using Chi Square Association metric	IETE Journal of Research, 54(1) 2008, pp73-80		0.912	National
2	Detection of Epileptic Seizures using Wavelet Transform	International Journal of Biomedical Engineering and Consumer Health Informatics, 1(1), 2008, pp. 15-22.		1.4	International
3	Gamma Frequency Range Based EEG Analysis for Epilepsy Detection	International Journal of Medical Engineering and Informatics, Vol. 2, No. 1, 2010, pp 15-25.		0.832	International
4	DSP Implementation of EEG Analysis Using Discrete Wavelet Transform	International Journal of computational Intelligence and Healthcare Informatics, Vol. 2, No. 2, July-December 2009, pp. 145-151.		0.0952	International
5	Transaction Level Modeling of High Level DMA Controller	Journal of Computing, Vol. 3, Issue 7, July 2011, pp23-28	ISSN 2151-9617	0.533	International
6	Intelligent Infrared Target for Training Commandos to Combat Urban Terrorism	International journal of WSEAS Transaction on Signal processing, Vol. 7, Issue 3, July 2011, pp85-91	ISSN 1790-5052	1.9	International

7	Discrete Wavelet Transform Implementation on TMS320c6713 Processor for Epilepsy detection	National Journal Jointly Published by IEEE and Narosa Publishing Home, 2012, pp236-240		1.686	National
8	Design and Implementation of VLSI Architecture for Mixed Radix FFT	International Journal of Scientific and Engineering Research, Vol. 3, Issue 11, Nov.2012	ISSN 2229-5518	3.2	International
9	FPGA Implementation of Discrete Wavelet Transform for Electroencephalogram Analysis	International Journal of Engineering Research and Applications (IJERA), Vol'3, Issue 1, Jan-Feb2013,pp.618-621.	ISSN 2248-9622.	1.325	International
10	Study on Comparison of Various Multipliers	International Journal of Electronics and Communication Engineering & Technology. Volume 4, Issue 5, September – October, 2013, pp. 132-142.	ISSN 0976 – 6464(Print) , ISSN 0976 – 6472(Online)	Impact Factor (2013): 5.8896 (Calculated by ISI). 1.2456	International
11	Design and realization of Low leakage 1-bit CMOS based Full Adder Cells for Mobile Applications	IOSR Journal of VLSI and Signal Processing (IOSR-JVSP), Volume 3, Issue 6 (Nov. – Dec. 2013), PP 51-57,	e-ISSN: 2319 – 4200, p-ISSN No. : 2319 – 4197.	1.458	International
12	Development of Telugu Text To Speech System on OMAP 3530	IJRIT International Journal of Research in Information Technology. Volume 1, Issue 12, December, 2013, pp. 194-201		1.043	International
13	Hand Gesture Recognition Using Accelerometer	International Journal of Electrical Electronics and Communication (IJEEC), Vol :05, No : 30 pp.331-334, Sep-2014	2048- 1069	3.86	International

14	Design of Brain Machine Interface through LabVIEW'	National Journal of Instrumentation Society of India (ISOI), Volume 44, Sep 2014		1.869	National
15	Hand Gesture Recognition Using Accelerometer For Disabled	IJSETR, VOL-3,Issue-12, Dec-2014	2278 – 7798	2.753	International
16	Implementation of Text to Speech Synthesis using HMM	International Journal of Science and Research (IJSR), Vol. 4, Issue 3, March- 2015.	ISSN (online) : 2319-7064	4.438	International
17	On-Board Camera Based on Pedestrian Detection system	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Vol. 4, Issue 3, March- 2015	ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875	1.686	International
18	Design and Implementation of Silent Pause Stuttered Speech Recognition System	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Vol. 4, Issue 3, March- 2015	ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875	1.686	International
19	FPGA Based Arrhythmia Detection	3rd International Conference on Recent trends in Computing-2015 (ICRTC)-2015, Published by Elsevier B.V in Procedia Computer Science Aug.2015,	Vol.57,pp. 970 – 979, Aug.2015		International
20	Analysis of Cough Sounds for Diagnosis of Respiratory Diseases	7th IEEE International Advance Computing Conference (IA CC-2017)	(ISBN No: 978-93-5267-908-9)		National

21	Ardino Based Abnormal Heart Rate Detection And Wireless Communication	International Journal on Cybernetics & Informatics (IJCI),	Vol. 5, No. 4 August 2016,	International
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5.8. Papers presented at National / International Journals:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Data Acquisition System for the analysis of Sleep Disorders	International Conference on Systemics, Cybernetics and Informatics, Pentagonam Research Centre, Hyderabad	International	4-8 th January 2006
2	EEG analysis using Principal Component Approach	14 th IEEE International conference on Electronics, Circuits and Systems, Marrakech, Morocco	International	11-14 th December 2007
3	Detection of Epileptic Seizures using Wavelet Transform	International symposium on Global Trends in Biomedical Informatics Research, Education and Commercialization, Chennai	International	11-12 th January 2008
4	APT Wavelet Transform for spike detection in EEG signals	IEEE Conference on AI Tools in Engineering, Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women, Pune	International	6 - 8 th March 2008
5	Discrete Wavelet Transform Implementation on TMS320c6713 Processor for Epilepsy detection	International conference on Electronic Design and Signal Processing (ICEDSP-09) MIT, Manipal	International	10 th to 12 th December 2009
6	Linear Prediction Modelling for the Analysis of the Epileptic EEG	International Conference on Advances in Computer Engineering (ACE-2010) Bangalore	International	June 21-22, 2010
7	ECG Signal Processing Using LabVIEW	International Conference on Bio-Signals, Images and Instrumentation	International	March 14-16 th 2013
8	On-Board Wireless Data Acquisition System and Telemetry,	2013 International Telemetry Conference (ITC 2013), Bally's, Las Vegas, Nevada, USA	International	October 21 - 24, 2013
9	Detection of Epileptic Seizure	International Conference on Advances in computing, Electronics and	International	Oct. 12-13 th , 2013

	using LabView	CommunicationACEC-2013,at Zurich, Switzerland		
10	Telugu Text to Speech System for Mobile Based Systems	Fifth International Conference on Recent Trends in Information, Telecommunication and Computing – ITC 2014 is organised by the Association of Computer Electronics and Electrical Engineers (ACEEE) and sponsored by the Indian Society for Technical Education (ISTE),Chandigarh	International	Mar 21-22, 2014
11	3-Channel ECG Analyzer	International Conference on Communication and Computing (ICC - 2014) ,ICC-2014 is published by Elsevier	International	12- 14th June 2014
12	Speech Emotion Recognition by MFCC Coefficients and Support Vector Machines	First International Conference on Large Area Flexible Microelectronics ILAFM2014 organized by R.V.College of Engineering, Bengaluru	International	18-20th Dec.2014
13	FPGA Based Arrhythmia Detection,”	3rd International Conference on Recent trends in Computing-2015 (ICRTC)- 2015	International	12 th -13 th March- 2015
14	Low Leakage CNTFET Full Adders	IEEE Global Conference on Communication Technologies (GCCT- 2015)	International	23- 24 th April 2015
15	ECG Monitoring system using ARM9 Web-Server	IEEE Global Conference on Communication Technologies (GCCT- 2015)	International	23- 24 th April 2015
16	Implementation of speech based stress level monitoring System	4th International Conference on Computing, communication and sensor Network (CCSN-2015),	International	December 24th- 25th,2015
17	Cough classification tool for early detection and recovery monitoring of tuberculosis and asthma	4th International Conference on Computing, communication and sensor Network (CCSN-2015),	International	December 24th- 25th,2015
18	Performance Trace Suite Reduction using	4th International Conference on Computing, communication and sensor Network (CCSN-2015),	International	December 24th- 25th,2015

	Clustering Techniques			
19	Design of Data Acquisition System for Remote EEG System and EEG Analysis in LabVIEW	6th IEEE International Advance Computing Conference (IACC-2016) Organized by IEEE Computer Society - India Council & S R K R Engineering College, Bhimavaram, India	International	February 27-28, 2016
20	Design and Implementation of High Performance MIL-STD-1553B Bus Controller	7th IEEE International Advance Computing Conference (IACC-2017), VNRVJIET, Hyderabad (DOI:10.1109/IACC.2017.98)	International	5-7 th Jan-2017
21	Design and Implementation of Remote Terminal for MIL-STD-1553 B			
22	Aadhaar Based Biometric Attendance System Using Wireless Fingerprint Terminals			
23	Data Acquisition System Of Electro oculogram			
24	EEG Spike detection using Wavelet Transform	Medical Council of India & Indian Council of Medical Research (Meditel-06), Centre for Digital Health, Amrita Institute of Medical Sciences, Kochi	National	24-26th November 2006
25	Analysis of EEG using Maximum Likelihood Estimate	IETE Zonal seminar on "Emerging and Converging Communication Technologies" (SECT-07), The Institute of Electronics and Telecommunication Engineers, Visakhapatnam centre, Visakhapatnam	National	11th February, 2007
26	EEG analysis by Evaluating Performing Index FPGA	National conference on Bio-Medical Engineering, Manipal Institute of Technology, Manipal	National	4-6th October 2007
27	Implementation of Triple Data Encryption	National Conference on Advances in Signal Processing (NCASP - 09) Andhra University, Visakhapatnam	National	20-21 November 2009

	Algorithm for Data Security			
28	Design of Brain – Machine Interface Through LabVIEW	National Symposium on Instrumentation - NSI-38	National	

5.9. Sponsored research Projects:

S.No.	Title	Agency	Period	Grant Amount (Rs.)	Ongoing /Completed
1	Staff Development Program on Real Time Signal & Image Processing	AI CTE	1 Year (06- 18 June 2011)	4.86 Lakhs	Completed
2	Industry Institute Partnership Cell	AI CTE	2010-2012	10Lakhs	Completed
3	Upgradation Advanced Digital Signal Processing and Processors	AI CTE	2012-13	9.0Lakhs	Completed
4	Faculty Development Program on “VLSI Design”	AI CTE	2012-13	4.91Lakhs	Completed
5	Faculty Development Program on Real Time Embedded System Development	AI CTE	2012-13	4.80Lakhs	Completed
6	Upgradation of VLSI and ECAD Lab	AI CTE	2012-13	9.45Lakhs	Completed
7	Travel Grant sanctioned by Science and Engineering Research Board (SERB)	DST	2013-14	1.19Lakhs	Completed
8	Travel Grant sanctioned by University Grants Commission	UGC	2013-14	But not utilized	
9	Design and Development of System for ECG Waveform Characterization and Processing	AICTE	2013-2016	8.25Lakhs	Ongoing
10	Virtual Assistant for Mobile devices using Voice and Gesture Technologies	DIT	2013-2016	18.14Lakhs	Ongoing

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed
1	Design and Development of Mill Standard 1553IP Core	M/s Ananth Tech Pvt. Ltd.Hyderabad	1 Year	Rs.4.24 Lakhs Received- Rs.2.12Lakhs	Completed

6. Awards / Honors received:

- An MoU was signed between VNRVJIET and FICE Educational Institute which was mainly aimed at establishing an Intel lab in VNRVJIET to train students and faculty for bolstering innovation, employability and entrepreneurship.
- 2 Out of 6 ideas are selected for Seoul international invention Fair-2016.
- Received certificate from United Inventors Association of the USA for innovative Excellence for “CSA-BOT, A Device for Cognitive Status Assessment”.
- Mr.S.V.N.Narayana Rao, Assoc. Professor & Manager VJ HUB, got certificate from United Inventors Association of the USA for innovative Excellence for “Cough and Wheeze Analyzer Tool”.
- Received the Best Engineering College Teacher award from ISTE A.P & T.S during 10th ISTE AP & TS Section Annual Convention and Awards function- 2015 held at Kurnool on 29th December 2015
- One of the recommended candidate for Research award for the academic year 2014-16 by UGC, New Delhi
- Short listed for Research Award (2012-14) by University Grants Commission 9th Oct.2013
- Nominated as Research Committee member, BME, college of Engg. OU
- Executive Member ISTE AP Section 2012-2014
- Secretary cum Treasure ISTE Telangana Section 2015-2017
- Under my chairmanship Institute has received various awards like ISTE best chapter, best teacher, best student, Best innovator award & Best Engineering College.
- Advisory Committee Member of 1st National Conference on “Recent Advancement in Electronics” (.NCRAE – 2016), IFHE University, Hyderabad,22-23 Jan 2016
- Technical Program Committee member and Session Chair of 6th IEEE International Advance Computing Conference (IACC-2016)February 27-28, 2016Organized by IEEE Computer Society - India CouncilS R K R Engineering College, Bhimavaram, India
- Session Chair in International Conference on Computing Communication and Sensor Network (CCSN-2015) organizing by CCSN and International Association of Science, Technology Management, Kolkota during 24th and 25th December 2015.
- Advisory Committee member of International Conference on Paradigms in Engineering and Technology 2016 during 2nd- 3rd March 2016 at Methodist College of Engineering and Technology.

7. Motto: Let us make things happen instead of waiting for things to happen