Dr.D. Vishnu Vardhan

M.Tech., Ph. D.

Associate Professor & Head

Department of ECE

Jawaharlal Nehru Technological University Anantapur College of Engineering

Anantapuram – 515 002, Andhra Pradesh, India

BIO-DATA

Name	:	**Dr. D. VISHNU VARDHAN**
OfficialAddress	:	Associate Professor of ECE
		Jawaharlal Nehru Technological University Anantapur
		Ananthapuramu – 515 002, Andhra Pradesh (India)
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ResidentialAddress	:	**D-No: 12-5-26**8, **Lakshmi Narasaiah Colony**
		Ananthapuramu – 515 001
		Andhra Pradesh (India)
E-mail	:	**vishnu.ece**@jntua.ac.in
Nationality	:	Indian
Religion	:	Hindu

Educational Qualifications:

S. No.	Qualification	University/Institution	Specialization	Year of award
1.	Ph. D.	Jawaharlal Nehru Technological University Anantapur, Ananthapuramu	Electronics & Communication Engineering	2015
2.	M. Tech.	J.N.T.U. College of Engineering, Kakinada	Computers and Communications	2005
3.	B. Tech.	R.G.M. College of Engineering & Technology, Nandyal	Electronics & Communication Engineering	2000

Software skills:

OperatingSystems   :   Windows XP and LINUX

Languages   :   C, C++, VHDL and VERILOG

AssemblyLanguages   :   8085, 8086 and MASM

Packages   :   MATLAB, SIMULINK, PSPICE and XILINX

Areas of Interest:

Embedded Systems, Image Processing andVLSI

Professional Experience :

S.No.	Institution/Organization	Position held	Duration
1.	JNTUA College of Engineering, Ananthapuramu	Assistant Professor	July, 2017 to till date.
2.	JNTUA College of Engineering, Kalikiri	Assistant Professor	July, 2016 to July, 2017.
3.	JNTU College of Engineering, Pulivendula	Assistant Professor	November, 2006 to July, 2016.
4.	JNTU College of Engineering, Pulivendula	Lecturer	August, 2006 to November, 2006.
5.	JNTU College of Engineering, Anantapur	Lecturer	June, 2001 to November, 2002 and January, 2004 to August, 2006.

Administrative Experience:

S.No.	Administrative Post held	Duration
1.	Head, Department of ECE, JNTUACE, Ananthapuramu	July 2021 to till date.
2.	NSS Programme Officer, JNTUACE Ananthapuramu	September, 2019 to till date.
3.	Officer-In-Charge of Academic Section, JNTUACE Ananthapuramu	September, 2019 to February, 2021
4.	TEQIP-III Co-ordinator, JNTUACE, Ananthapuramu	October 2017 to June 2019.
5.	Placement Officer, JNTUACE, Ananthapuramu	July 2017 to January 2018.
6.	Officer In-charge of Guest House, JNTUACE, Kalikiri	September 2016 to July 2017.
7.	Placement Officer, JNTUACE, Kalikiri	August 2016 to July 2017.
8.	Head, Department of ECE, JNTUACE, Kalikiri	August 2016 to July 2017.
9.	Alumni Co-ordinator, JNTUACE Pulivendula	February, 2015 to July, 2016.
10.	Officer In-charge of Hostels, JNTUACE Pulivendula	January 2015 to July 2016.
11.	Deputy Warden, JNTUACE Pulivendula	August, 2011 to October, 2013.
12.	Head of Department of ECE, JNTUACE Pulivendula	June, 2011 to January, 2013.
13.	Officer In-charge of Physical Education, JNTUACE Pulivendula	December 2010 to December 2012.
14.	Head, Department of ECE, JNTUACE Pulivendula	June, 2011 to January, 2011.
15.	Officer-In-Charge of Academic Section, JNTUACE Pulivendula	May, 2007 to June, 2010.

Other Responsibilities:

- Member in UG & PG Board of Studies in the faculty of Electronics and Communication Engineering, JNTUACE, Pulivendula from 06-09-2013 to 14-07- 2016.

- Member in UG Board of Studies in the faculty of Electronics & Instrumentation Engineering, JNTUA, Ananthapuramu from 10-06-2015 to 06-02-2017.

- Member in UG Board of Studies in the faculty of Electronics & Instrumentation Engineering, JNTUA, Ananthapuramu from 07-02-2017 to 24-09-2021.

- Member in Board of Studies in the faculty of Electronics & Communication Engineering, Sreenivasa Institute of Technology and Management Studies, Chittoor, from 10-01-2020 to till date.

- Governing Body member at Rami Reddy Subbarami Reddy Engineering College nominated by the JNTUA, Ananthapuramu from 03-04-2014 to 09-08-2017.

- Governing Body member at Global Institute of Technology & Management Sciences nominated by the JNTUA, Ananthapuramu from 03-04-2014 to 09-08-2017.

- Governing Body member at Srinivasa Institute of Pharmaceutical Sciences nominated by the JNTUA,Ananthapuramufrom 09-08-2017 to till date.

- Governing Body member at Sastra College of Pharmaceutical Education & Research nominated by the JNTUA, Ananthapuramu from 09-08-2017 to till date.

Teaching Experience: **18**+ years of teaching UG & PG Courses.

Subjects Taught:

Undergraduate courses	Post graduate courses
❖ Electronic Devices andCircuits ❖ Network Analysis ❖ Switching Theory and LogicDesign ❖ Probability Theory and Stochastic Processes ❖ Electronic CircuitAnalysis ❖ Pulse and Digital Circuits ❖ Digital Communications ❖ Linear ICApplications ❖ Digital ICApplications ❖ Microprocessors andMicrocontrollers ❖ Electromagnetic Waves and Transmission Lines ❖ MicrowaveEngineering ❖ Digital Image Processing ❖ Cellular and MobileCommunications ❖ Telecommunications Switching Systems andNetworks ❖ Embedded Systems ❖ Digital SignalProcessing	❖ VLSI ❖ Advanced Digital Signal Processing ❖ Advanced ComputerArchitecture ❖ Detection and EstimationTheory ❖ ADSPArchitectures

❖ In addition, the laboratories of UG and PG programmes in the areas of Electronics and Computers have been dealtwith.

Ph.D Students:

S.No.	Name of the Student	Admission Number	Title of Research work	Supervisor/ co-Supervisor	Status
1.	Mr. Y. L. Ajay Kumar	13PH0427	Efficient Interconnect Architecture and Routing Methodology for NOC Implementation	Co-Supervisor	Awarded
2.	Smt. PuttaBrundavani	16PH0423	Design and Optimization of Low Power Neural Recording Front End	Supervisor	Pursuing
3.	Mr. Shaik Karimullah	16PH0424	Optimization of Placement and Routing in ASIC design	Supervisor	Pursuing
4.	Smt. Kakani Suvarna	16PH0406	Analytical study of Defected Ground Structures and Electromagnetic Bandgap structures for LTE Mobile Communications	Co-Supervisor	Pursuing

5.	Miss. Guduru Lakshmi Shireesha	18PH0401	Cooperative Communications using VLSI	Supervisor	Pursuing
6.	Mr. P. Murali Krishna	18PH0407	CNTFET based design of power and area efficient ternary ALU	Supervisor	Pursuing

Patents Published: 02
Patent Details:

	Computer Implemented System for Optimizing Placement and Routing in Very Large Scale Integrated Circuit Design	201811041035	30.05.2018	Published
1.	An Artificial Neural Network System For Functional MRI Segmentation With CC-BPA	2021100880	07.04.2021	Published

Books Authored: 01

Book details:

1. Mr. Raja Suresh, Mrs. P. Brundavani, Dr. D. Vishnu Vardhan, Dr. MayuriKundu "Implementation & Installation of FM Broadcasting System" Orange Publishers, First Published: June 2021, ISBN: 978-93-90505-50-0.

Number of Research publications:

        International Journals   :56
        International Conferences   :09
        National Conferences   :15

Performance Indices of Publications:

Total Citations   : 46
h-Index   : 02
i10-Index   : 04

List of publications:

International Journals:

1. Narasimha Murthy Y., Soundararajan K. and Vishnu Vardhan D., "ARM Processor Based Multisensor System Design for the Measurement of Environmental Parameters", International Journal of Sensors & Transducers, Volume 136, Issue 1, pp : 59-71, January 2012. (ISSN: 1726-5479). Peer Reviewed, e-Impact factor: 205.767.

2. D. Vishnu Vardhan, K. Soundararajan and Y. Narasimha Murthy, "Design and Development of Low Power Wireless Sensor System for Measurement and Monitoring of Bio-Medical Parameters", International Journal of Engineering Research, Volume No.2, Issue No.3, pp : 208-212, 01 July 2013. (ISSN: 2319-6890).

3. D. Vishnu Vardhan, Y. Narasimha Murthy and M.N. Giri Prasad, "Strategies in the Design of Low Power Wireless Sensor Network for the Measurement and Monitoring of Physiological Parameters", International Journal of Computer Applications Technology and Research, Volume No.2, Issue No.5, pp : 539-547, 2013. (ISSN: 2319-8656).

4. D. Vishnu Vardhan and Vimala Jane Prathima P, "Implementation of AEC(Acoustic Echo Cancellation) on Cortex-M4",International Journal of Scientific Engineering and Technology, Volume No.2, Issue No.10, pp : 1017-1021, 2013. (ISSN:2277-1581).

5. N. Harish Kumar and D. Vishnu Vardhan, "Metadata Collection and Monitoring the Efficiency of Workflow in Industries using Wireless Sensors Network",InternationalJournal of Scientific Engineering and Technology Research,Volume No.2, Issue No.17, pp : 2028-2033, 2013. (ISSN:2319-8885).

6. B. Praveen Kumar and D. Vishnu Vardhan, "Performance of Decision Feedback Equalizer over Frequency Selective Fading Channel in W-CDMA Systems", International Journal of Advanced Engineering and Nano Technology, Volume No.1, Issue No.1, pp :2028-2033, 2013. (ISSN:2347-6389).

7. K. Jagadeesh and D. Vishnu Vardhan, "Electronic Bus Service and Enquiry Management System", International Journal of Scientific Engineering and Technology Research,Volume No.3, Issue No.5, pp :0816-0819, 2014. (ISSN:2319-8885).

8. D. Vishnu Vardhan and G. Yateesh, "Design of Compact Multipurpose Mobile Based Health Care Device With Location Tracker Using Wearable Technology", International Journal of Science and Research, Volume No.3, Issue No.8, pp: 0753-0756, 2014. (ISSN:2319-7064).

9. D. Vishnu Vardhan and P. Penchala Prasad, "Hand Gesture Recognition Application for Physically Disabled People", International Journal of Science and Research, Volume No.3, Issue No.8, pp :0765-0769, 2014. (ISSN:2319-7064).

10. D. Vishnu Vardhan and K. Bhavya, "Feature Selection Method For Single Target Tracking Based on Object Interaction Models", International Journal of Engineering Research and Applications, Volume No.4, Issue No.8, pp :0034-0037, 2014. (ISSN:2248-9622).

11. D. Vishnu Vardhan and K. Jayachandra Reddy, "Acceleration of Shiftable 0(1) Algorithm for Bilateral Filtering Non-local means", International Journal of Science and Research, Volume No.3, Issue No.9, pp :1073-1077, 2014. (ISSN:2319-7064).

12. C. Nagaraju, D. Sharadamani, C. Maheswari and D. Vishnu Vardhan, "Soft Local Ternary Pattern For Decision Making System Based on Human Emotions", International Journal of Research in Computer Science, Volume No.2, Issue No.1, pp :0006-0011, 2015. (ISSN:2349-3828).

13. P. Farida and Dr. D. Vishnu Vardhan, "Design of NFC Based Vehicle Parking System Using Smartphone", International Journal of Science and Research, Volume No.4, Issue No.3, pp :0819-0821, 2015. (ISSN:2319-7064).

14. P. Sreelekha and Dr. D. Vishnu Vardhan, "Implementation of Green Wave System for Traffic Clearance of Emergency Vehicles and for Detection of Theft Vehicles", International Journal of Science and Research, Volume No.4, Issue No.3, pp :0948-0951, 2015. (ISSN:2319-7064).

15. Y.V. Rami Reddy and Dr. D. Vishnu Vardhan, "Denoising of NIRS Measured Biomedical Signals", International Journal of Innovative Research in Science& Engineering, Volume No.3, Issue No.5, pp :0199-0209, 2015. (ISSN:2347-3207).

16. S. Vijaya Kumar and Dr. D. Vishnu Vardhan, "Wireless Network Sensors for Precise Agriculture Monitoring", International Journal of Innovative Research in Science & Engineering, Volume No.3, Issue No.6, pp : 0278-0285, 2015. (ISSN:2347-3207).

17. E. Keshavaiah, Dr. D. Vishnu Vardhan and C. Maheswari, "A Sovereign EBB Detection and Alerting System Based On Mobile Omnipresent Computing", International Journal of Innovative Research in Science & Engineering, Volume No.3, Issue No.7, pp : 0302-0307, 2015. (ISSN:2347-3207).

18. V. Subbarayudu and Dr. D. Vishnu Vardhan, "Efficient Clothing Pattern Recognition for Blind People Using SVM Classifier", International Journal of Science and Research, Volume No.4, Issue No.7, pp :0286-0291, 2015. (ISSN:2319-7064).

19. M. Sravan Reddy and Dr. D. Vishnu Vardhan, "Post-processing of Pulse code modulation encoder output to downtick bit rates for voice transmission", International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Volume No.3, Issue No.11, pp : 0089-0091, 2015. (ISSN:2321-2004).

20. Dr. D. Vishnu Vardhan, Bandaru Bhavana and C. Nagaraju, "Edge Preserving Based on Weighted Guided Image Filtering", International Journal of Science and Research, Volume No.5, Issue No.6, pp :1979-1982, 2016. (ISSN:2319-7064).

21. Dr. D. Vishnu Vardhan and D. Sunitha Kumari, "Real Instant Road Condition Monitoring With Data Logging Algorithm", International Journal of Science and Research, Volume No.5, Issue No.6, pp :2154-2157, 2016. (ISSN:2319-7064).

22. K. Mamatha and Dr. D. Vishnu Vardhan, "VLSI Implementation of High Performance 1x5 Robust Router Architecture", International Journal of Scientific Engineering and Technology Research, Volume No.5, Issue No.17, pp :3433-3437, 2016. (ISSN:2319-8885).

23. Dr. D. Vishnu Vardhan and N. Pujitha, "Web Based Power Management in Home using Wireless Sensor Networks", International Journal of Science and Research, Volume No.5, Issue No.7, pp : 0964-0967, 2016. (ISSN:2319-7064).

24. G. Chandrasekhar and Dr. D. Vishnu Vardhan, "Embedded System Based Environmental Condition Monitoring for Fish Farming", International Journal of Science, Engineering and Technology Research (IJSETR), Volume No.5, Issue No.8, pp :2640-2644, 2016. (ISSN:2278-7798).

25. T. Narasimha and Dr. D. Vishnu Vardhan, "GPS-GSM Based Intelligent Vehicle Tracking System Using ARM7", International Journal of Science, Engineering and Technology Research (IJSETR), Volume No.5, Issue No.8, pp :2654-2658, 2016. (ISSN:2278-7798).

26. M.C. Janardhan Reddy and Dr. D. Vishnu Vardhan, "A Low Cost and Real Time Streetlight Monitoring System", International Journal of Science, Engineering and Technology Research (IJSETR), Volume No.5, Issue No.8, pp :2679-2683, 2016. (ISSN:2278-7798).

27. Ramamohan. C and Dr. D. Vishnu Vardhan, "Obstacle Detection and Navigation System for Impaired People", International Journal of Science, Engineering and Technology Research (IJSETR), Volume No.5, Issue No.8, pp :2684-2689, 2016. (ISSN:2278-7798).

28. J. Mrudula Shalem Rani and Dr. D. Vishnu Vardhan, "High-resolution, Low-power Time Synchronization", International Journal of Science, Engineering and Technology Research (IJSETR), Volume No.5, Issue No.12, pp :3406-3409, 2016. (ISSN:2278-7798).

29. B. Karthik, S. JaveedBasha, B. Abdul Rahim and D. Vishnu Vardhan, "Task Scheduling on Multiprocessor System using Ant Colony Optimization", International Journal of Advanced Trends in Engineering, Science and Technology (IJATEST),Volume No.4, Special Issue No.1, pp :110-119, 2016. (ISSN:2456-1126). (ONLINE). Impact Factor: 1.65.

30. M. Bibi Ayesha, B. Abdul Rahim, D. Vishnu Vardhan and N. Bala Dastagiri, "Performance Comparison of Comparators in ADCs using Geometric Programming" , International Journal of Advanced Trends in Engineering, Science and Technology (IJATEST),Volume No.4, Special Issue No.1, pp :110-119, 2016. (ISSN:2456-1126). (ONLINE). Impact Factor: 1.65.

31. Shaik Karimullah, D. VishnuVardhan, N. BalaDastagiri and B. Abdul Rahim, "Design of high gain Low Power Operational Amplifier", International Journal of Advanced Trends in Engineering, Science and Technology (IJATEST),Volume No.4, Special Issue No.1, pp :110-119, 2016. (ISSN:2456-1126). (ONLINE). Impact Factor: 1.65.

32. B. Jeevitheswari, S. Karimullah and Dr. D. VishnuVardhan, "A Low Power DFT Based CMOS Receiver with Dual use of Power Lines", International Journal of Scientific Engineering and Technology Research (IJSETR), Volume No. 06, Issue No. 22, pp: 4470-4475, June 2017. (ISSN 2319-8885). Impact Factor: 5.762.

33. Y.L. Ajay Kumar, Dr. D. Satyanarayana and Dr. D. Vishnu Vardhan, "Design of Low Power and Low Latency Novel Scheme for Network on Chip", International Journal of Research (IJR), Volume No. 04, Issue No. 07, pp: 3166-3170, June 2017. (ISSN 2348-6848). Impact Factor: 5.60. UGC Approved Journal Serial No: 44396. ICV: 100. Indexed in Thomson Reuters.

34. Y.L. Ajay Kumar, Dr. D. Satyanarayana and Dr. D. Vishnu Vardhan, "Extensible On-Chip Interconnect Architecture and Routing Methodology for NOC", International Journal of Science and Technology, Volume No. 10, Issue No. 38, pp: 1-5, 2017. (ISSN (Print): 0974-6846, ISSN (Online): 0974-5645. Impact Factor: 5.02, Thomson Reuters.

35. Y.L. Ajay Kumar, Dr. D. Satyanarayana and Dr. D. Vishnu Vardhan, "Measuring the Efficiency of Routing Architecture for DyNOC Using Novel Method", International Journal of Pure and Applied Mathematics (IJPAM), Volume No. 118 Issue No. 20, pp: 3013-3026, 2018. (ISSN 1314-3395). Impact Factor: 7.19.

36. Y.L. Ajay Kumar, Dr. D. Satyanarayana and Dr. D. Vishnu Vardhan, "Routing Architecture for Efficient Network on Chip using Agent", Journal of Engineering and Applied Sciences, Volume No. 13, Issue No. 15, pp: 6002-6007, 2018. (ISSN: 1816-949x). Scopus Indexed. UGC Approved Journal No: 7336.

37. Dr. D. Vishnu Vardhan and Ch. Anusha, "Fingerprint and OTP Based Multi-Door Lock Security System", Journal of Emerging Technologies and Innovative Research(JETIR), Volume No. 05,Issue No. 06, pp :741-745, June,2018.(ISSN 2349-5162).Impact Factor: 5.87.UGC Approved Journal No: 63975.

38. Dr.D.Vishnu Vardhan, Shaik Karimullah, P.Sai Bhavya, P. Parameswara Yadav "MONITERING PHYSIOLOGICAL VARIABLES OF MINING WORKERS", International Journal of Engineering and Technology-Special Issue-2018.

39. Dr.D.Vishnu Vardhan, Shaik Karimullah "MONITERING ENVIRONMENTAL VARIABLES OF MINING WORKERS", International Journal of Engineering and Technology-Special Issue-2018.

40. P. Brundavani, D. Vishnu Vardhan, S. Salma, K Hari Kishore, "Design And Analysis Of Low Power Low Noise Amplifier For Neural Recording Systems", Journal of Advanced Research in Dynamical & Control Systems, ISSN 1943-023X Vol. 10, 09-Special Issue, 2018.

41. Bedare Thulja Bhavani Bai and Dr. D. Vishnu Vardhan, "PIN Entry Method For Resistant Shoulder-Surfing Attacks Using Steganopin", Journal of Emerging Technologies and Innovative Research(JETIR), Volume No. 05, Issue No. 07, pp:165-168,July,2018.(ISSN-2349-5162).Impact Factor: 5.87.UGC Approved Journal No: 63975.

42. Dr. D. Vishnu Vardhan and M. Rajesh, "IoT Based Smart Attendance System", Journal of Emerging Technologies and Innovative Research(JETIR), Volume No.05, Issue No.08, pp:623-625, August, 2018.(ISSN 2349-5162). Impact Factor: 5.87. UGC Approved Journal No: 63975.

43. P. Harish, Dr. D. Vishnu Vardhan, "Controlling and Monitoring Ornamental Plants by Using IoT With GPRS", Journal of Emerging Technologies and Innovative Research(JETIR), Volume No.05, Issue No.09, pp:132-137, Septmber,2018.(ISSN 2349-5162). Impact Factor: 5.87. UGC Approved Journal No: 63975.

44. Dr. D. Vishnu Vardhan, P. Praveen Kumar, "Design and Development of an Intelligent Security System for Women Safety Based on RF, GSM and GPS Technology", Journal of Emerging Technologies and Innovative Research(JETIR),Volume No.06, Issue No.01, pp: 620-624, January,2019.(ISSN 2349-5162). Impact Factor: 5.87. UGC Approved Journal No: 63975.

45. D. Shareefa, Dr. D. Vishnu Vardhan, "Design and Implementation of IoT Based Parking System", International Journal of Scientific Research in Science and Technology(IJRST), Volume No.04, Issue No.11, pp:224-230 December,2018.(ISSN 2395-6011). Impact Factor: 5.327. UGC Approved Journal No: 64011.

46. Dr. D. Vishnu Vardhan, A. Hemanth Kumar, "Design and Implementation of Air-Writing Recognition", Journal of Emerging Technologies and Innovative Research (JETIR), Volume No.05, Issue No.08, pp: 516-520 August, 2018. (ISSN-2349-5162).Impact Factor: 5.87. UGC Approved Journal No: 63975.

47. R. Yerriswamy, Dr. D. Vishnu Vardhan and Sankar Lal Sharma, "A High-Performance FIR Filter Architecture for Reconfigurable Applications", International Journal of Scientific Research in Science and Technology (IJSRST), Volume No.06, Issue No.01, pp:420-424, February 2019. (ISSN-2395-6011).Impact Factor: 5.327. UGC Approved Journal No: 64011.

48. Gada Ankaiah, Dr. D. Vishnu Vardhan, "Design and Development of Embedded Processor Based Human Fall Detection System", Journal of Emerging Technologies and Innovative Research(JETIR), Volume No.06, Issue No.03, pp:116-121, March 2019.(ISSN-2349-5162).Impact Factor: 5.87. UGC Approved Journal No: 63975.

49. P. Brundavani, D. Vishnu Vardhan, R. Lakshmi Prasanna, R.Kavya, "Continuous Time CMFB Circuits For $\Sigma\Delta$ Modulatorbased ADC", International Journal of Engineering Research ISSN:2319-6890 (online), 2347-5013(print) Volume No.8, Issue Special 2, pp : 111-114 -13 & 14 March 2019.

50. R. K. Thanush, Dr. D. Vishnu Vardhan, "Design and Analysis of Circular Microstrip Patch Antenna Array for S-Band Applications", International Journal of Research (IJR Publisher), Volume No.08, Issue No.05, pp:2048-2057, May 2019. (ISSN-2236-6124).Impact Factor: 5.7. UGC Approved Journal No: 63975.

51. N. Naveen Kumar, Dr. D. Vishnu Vardhan, "Miniature Insert Feed of Microstrip Patch Antenna Using Defected Ground Structure DGS for X-Band and Wi-Max Applications", International Journal of Research (IJR Publisher), Volume No.08, Issue No.05, pp: 1077-1086, May 2019. (ISSN-2236-6124).Impact Factor: 5.7. UGC Approved Journal No: 63975.

52. Kakani Suvarna, Nallagarla R. Murty, and Dupakuntla V. Vardhan, "A Miniature Rectangular Patch Antenna Using Defected Ground Structure for WLAN Applications", Progress In Electromagnetics Research C, Vol. 95, September 2019(ISSN:1937-8718).

53. P. Brundavani, D. Vishnu Vardhan, G. Akhila, R. Maneesha, C. Anil, " Implementation Of Low Power Cmos Vga For Neural Recording Applications", The International Journal Of Analytical And Experimental Modal Analysis Volume XII, Issue V, May 2020 ISSN NO:0886-9367 Page No:106-111.

54. Kakani Suvarna, Nallagarla Ramamurthy and Dupakuntla Vishnu Vardhan, "Miniaturized and Gain Enhancement of Tapered Patch Antenna Using Defected Ground Structure and Metamaterial Super strate for GPS Applications", Progress In Electromagnetics Research C, Vol. 108, 187–200, January 2021(ISSN:1937-8718).

55. Shaik Karimullah, Dr. D. Vishnuvardhan, "Simulation of Optimized Architecture for the Estimation of Congession during Placement and Routing", Design Engineering (Toronto), Vol 2021 : Issue 03, Pages 755-764, 2021.

56. P. Brundavani, Dr. D. Vishnu Vardhan, "Second Order Continuous Time Incremental Sigma-Delta Modulator Based Analog-To-Digital Converter", Design Engineering, ISSN: 0011-9342,|Pages: 1013 – 1024, Issue: 5, Year 2021.

International conferences:

1. P. Ganesh, S. Javeed Basha, B. Abdul Rahim, D. Vishnu Vardhan, "ANT COLONY BASED OPTIMIZED SENSOR SELECTION FOR AN AIRCRAFT ENGINE", 2017 International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS).

2. M. Lakshmi Dharani, S.J. Venkateswara Rao, B. Abdul Rahim, D. Vishnu Vardhan, "SENSOR SELECTION IN AN AIRCRAFT ENGINE USING GENETIC ALGORITHM", 2017 International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS).

3. Y.L. Ajay Kumar, Dr. D. Satyanarayana and Dr. D. Vishnu Vardhan, "Improvise the Routing efficiency in a 3X3 Mesh Network on Chip (NOC)", Joint International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES-2017) & Power, Circuit and Information Technologies (ICPCIT-2017) organized by Departments of EEE, CSE & ECE, during 27-29, April 2017 at Madanapalle Institute of Technology & Science, Madanapalle, Andhra Pradesh.

4. Shaik Karimullah, D. Vishnu Vardhan, "Experimental Analysis of Optimization Techniques for Placement and Routing in ASIC Design", ICDSMLA 2019, Lecture Notes in Electrical Engineering , Springer Nature Singapore Pvt. Ltd. 2020 ICDSMLA 2019, Lecture Notes in Electrical Engineering .

5. Shaik Karimullah, D. Vishnu Vardhan, and Syed Javeed Basha, "Floorplanning for Placement of Modules in VLSI Physical Design Using Harmony Search Technique", ICDSMLA 2019, Lecture Notes in Electrical Engineering , Springer Nature Singapore Pvt. Ltd. 2020 ICDSMLA 2019, Lecture Notes in Electrical Engineering .

6. Shaik Karimullah, D. Vishnu Vardhan, "Iterative Analysis of Optimization Algorithms for Placement and Routing in Asic Design", ICDSMLA 2019, Lecture Notes in Electrical Engineering , Springer Nature Singapore Pvt. Ltd. 2020 ICDSMLA 2019, Lecture Notes in Electrical Engineering .

7. Dr. D. Vishnu Vardhan, Dr. P. Ramana Reddy, "Placement and Routing Strategies in VLSI Design using Optimization Algorithms", 1st International Conference on Advancement in Engineering Sciences (AES2019), organized by School of Electronics & Communication Engineering, Shri Mata Vasishno Devi University, Katra (J&K), India during 28th to 29th September 2019.

8. Shaik Karimullah, D. Vishnuvardhan, K. Riyazuddin, K. Prathyush, K. Sonia, "Low Power Enhanced Leach Protocol to Extend WSN Lifespan", ICCCE 2020, Lecture Notes in Electrical Engineering 698, Springer Nature Singapore Pvt. Ltd. 2020.

9. P. Brundavani, D. Vishnu Vardhan, "Review of Low Power Techniques for Neural Recording Applications", presented in International Conference on Cybernetics, Cognition and Machine Learning Applications and published in Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough, Studies in Computational Intelligence 885, Springer Nature Switzerland AG 2020.

National conferences:

1. D. Vishnu Vardhan, "Neural Networks in Speaker Identification", in NCRTEC-2007 organized by the Department of ECE, G. Pulla Reddy Engineering College, Kurnool (A.P) on 25th January 2007.

2. D. Vishnu Vardhan, "Simulation of DS-CDMA and WCDMA System for Multi-user Image Transmission", in NCRTEC-2007 organized by the Department of ECE, Sree Nidhi Institute of Science and Technology, Hyderabad, during 03-04, July 2009.

3. D. Vishnu Vardhan, "Wireless ECG Monitoring system using Zigbee", organized by the Department of Information Technology, Annamacharya Institute of Technology & Sciences, Rajampet (A.P), during 12-13, October 2012.

4. B. Karthik, S.JaveedBasha, B.Abdul Rahim and D.VishnuVardhan, "Task Scheduling on Multiprocessor System using Ant Colony Optimization", National Conference on Emerging Trends in Information, Digital & Embedded Systems (NC'e-TIDES-2016), organized by AITS Rajampet.

5. M. Bibi Ayesha, B. Abdul Rahim, D.VishnuVardhan and N. BalaDastagiri, "Performance Comparison of Comparators in ADCs using Geometric Programming" National Conference on Emerging Trends in Information, Digital & Embedded Systems (NC'e-TIDES-2016), organized by AITS Rajampet.

6. Shaik Karimullah, D.VishnuVardhan, N.BalaDastagiri and B.Abdul Rahim, "Design of high gain Low Power Operational Amplifier", National Conference on Emerging Trends in Information, Digital & Embedded Systems (NC'e-TIDES-2016), organized by AITS Rajampet.

7. Shaik Karimullah P.Brundavani, D.Vishnu vardhan, "An Effective User Interface Image Processing Model For Classification Of Brain MRI To Provide Prolific Health Care", National Conference on Research Trends in Engineering and Technology-2017.

8. P. Brundavani, Shaik Karimullah, Dr. D. VishnuVardhan, "Reduction Of Kickback Noise In High Speed Low Power Domino Logic Based Clocked Regenerative Comparator", National Conference on Research Trends in Engineering and Technology-2017.

9. Dr. D. VishnuVardhan and Shaik Karimullah, "Monitoring Environmental Variables of Mining Workers", National conference on Emerging Trends in Information, Management and Engineering Sciences NC'e-TIMES #1.0-2018, organized by AITS Rajampet.

10. Dr. D. VishnuVardhan, Shaik Karimullah, P. SaiBhavya and P. ParameshwarYadav, "Monitoring Physiological Variables of Mining Workers", National conference on Emerging Trends in Information, Management and Engineering Sciences NC'e-TIMES #1.0-2018, organized by AITS Rajampet.

11. Shaik Karimullah and Dr. D. Vishnu Vardhan, "A Review paper on Optimization of Placement and Routing Techniques", National conference on Emerging Trends in Information, Management and Engineering Sciences NC'e-TIMES #1.0-2018, organized by AITS Rajampet.

12. M. Hymavathi, Dr. K. Riyazuddin, Dr. D. Vishnu Vardhan and N. Bala Dastagiri, "IoT based Security for Women and Children safety", National conference on Emerging Trends in Information, Management and Engineering Sciences NC'e-TIMES #1.0-2018, organized by AITS Rajampet.

13. P. Brundavani, Dr. D. Vishnu Vardhan, S. Jyothsna and G. Likitha, "Comparison of Neural Signals for ADC in Neural Implants", National conference on Emerging Trends in Information, Management and Engineering Sciences NC'e-TIMES #1.0-2018, organized by AITS Rajampet.

14. P. Brundavani, Dr. D. Vishnu Vardhan, P. Mahesh and R. Suresh, "Designa and Analysis of 16-bit RISC processor using low power pipeline", National conference on Emerging Trends in Information, Management and Engineering Sciences NC'e-TIMES #1.0-2018, organized by AITS Rajampet.

15. Kakani Suvarna, Nallagarla Ramamurthy, and Dupakuntla Vishnu Vardhan," Miniaturized and Meander line slot loaded Rectangular Planner Patch Antenna Using DGS for Dual Band Application"., National e-Conference on Technology for impactful and sustainable development of the society(TISDS)-December 2020.

Workshops /Refresher Courses/Training Programmes/ Summer Course/Orientation Course/Winter Schools Attended:

1. Workshop on "TCP/IP Networks & Protocols", jointly organized by the JNTUCE HyderabaD& SNIST Hyderabad, during 6-8 December 2008.

2. Two-day National workshop on "Digital Imaging: Trends & Perspectives (DITP-2008)", organized by the Department of ECE, JNTUCE Anantapur, during 19-20 December 2008.

3. Two-day Faculty Development Programme on "Embedded Systems and Technology", organized by the Department of ECE, JNTUCE Anantapur, in collaboration with Honeywell Technologies Bangalore, during 29-30 December 2008.

4. UGC Sponsored Orientation Course from 22-06-2009 to 18-07-2009 at UGC Academic Staff College, Osmania University, Hyderabad.

5. Three Day workshop on "Embedded System Design on MSP430", organized by Gill Instruments Bangalore, during 4-6 January 2010.

6. National workshop on "Fuzzy Embedded Systems-Concepts & Applications", organized by Department of Electronics & Instrumentation Engineering, VR Siddhartha Engineering College, Vijayawada, A.P, on 22-01-2011.

7. One-day workshop on "Service Oriented Architecture & Cloud Computing", organized by JNTUA, Anantapur in collaboration with M/s Tata Consultancy Services, Hyderabad, on 26-07-2011.

8. UGC Sponsored Refresher Course on "Image & Video Processing and its applications" from 14-11-2011 to 03-12-2011 at UGC-Academic Staff College, JNTU Hyderabad.

9. Two week Faculty Updation Training on "Hands-on with ARM: Programming Embedded Systems", organized by C-DAC, Hyderabad in collaboration with JNTU, Hyderabad from 12-12-2011 to 23-12-2011.

10. Workshop on "Embedded Systems", organized by the Pearson Education and Department of ECE, JNTUCE Anantapur,on 5th October 2012.

11. One day Workshop on "Complementary Domains – VLSI & Embedded Sytems (CDVES-13)", organized by the Department of ECE, JNTUACE Anantapur, on 30th April 2013.

12. Foundation Skills in IT (FSIT) Master Training Program in "Technical Skills", from 21-10-2013 to 28-10-2013 at University College of Engineering, Osmania University, Hyderabad.

13. Two days national workshop on "From Campus to Corporate", organized by ESCI, Hyderabad, during 22-23, February 2014.

14. Faculty Development Programme on "Pedagogical Training", organized by JNTUA College of Engineering, Pulivendula, during 01-05, March, 2014.

15. IEEE Faculty workshop on "RTL Verification using Verilog", at R.V. College of Engineering, Bangalore on 19th November 2014.

16. Five day Introductory workshop on "A Foundation Course on Human Values and Professional Ethics", from 5th – 9th January 2015 held at Academic Staff College, Andhra University, Visakhapatnam.

17. Three day hands-on workshop, "Linear Integrated Circuits: A Systems Approach", from Mar 02-Mar 04, 2015, organized by JNTU, Anantapur in collaboration with Sapience Consulting under the Texas Instruments India University Program at JNTU, Anantapur.

18. MHRD's National Mission for Teachers and Administrators Management Capacity Enhancement Programme held at the Indian Institute of Management, Indore, during 08-14, June, 2015.

19. National Workshop on "NBA Accreditation", organized by the Institution of Engineers (India), Shimla (HP), during 18-20, June 2015.

20. Hands-on-workshop, "Embedded System Design using MSP430", organized by JNTU, Anantapur in collaboration with Sapience Consulting, during 10-12, September 2015.

21. Faculty Development Program on "Intellectual Property Rights (IPR)", organized by Sri Venkateswara University College of Engineering, Tirupati (A.P), during 18-20, November 2015.

22. Leadership workshop on "Digital / e-Learning" for the Faculty of Public Universities of Andhra Pradesh, organized by the Administrative Staff College of India, Hyderabad, during 18-22, January 2016.

23. 3rd World Summit on Accreditation, organized by National Board of Accreditation, during March 18th – 20th, 2016 at Delhi.

24. Faculty Development Program on "Patent Drafting and Filing", organized by JNTUA College of Engineering, Pulivendula (A.P), on 23rd April 2016.

25. One day Didactical Programme on "Crafting Powerful Questions", organized by JNTUA College of Engineering, Ananthapuramu (A.P), on 16th July 2016.

26. Faculty Development Programme on "Embedded Real Time Systems", organized by the E&ICT Academy, National Institute of Technology, Warangal at Department of ECE, JNTUA College of Engineering, Ananthapuramu (A.P), during 01-10, February, 2017.

27. Short Term Course on "Advanced Optimization Techniques for Engineering Application (AOTEA-18), organized by Department of Computer Engineering, National Institute of Technology Kurukshetra, during 13-17, January, 2018.

28. Two days Faculty Development Programme on "Data Science", organized by the Department of CSE, JNTUA College of Engineering, Ananthapuramu (A.P) in collaboration with Tata Consultancy Services (TCS), during 03-04, April, 2018.

29. One-Week Faculty Development Programme on "Reinforcing Professional Communication Skills for Teaching Faculty", organized by the Department of Humanities, JNTUA College of Engineering, Ananthapuramu (A.P), during 11-15, June, 2018.

30. Professional Development Training at Indian Institute of Management Tiruchirappalli from 8th to 10th October 2018.

31. One-week Faculty Development Programme on "Soft Skills and Personality Development", organized by the Department of Humanities, JNTUA College of Engineering, Ananthapuramu (A.P), during 10-14, December, 2018.

32. Two day 1st International Conference on Advancement in Engineering Sciences (AES 2019) organized by SMVDU, Katra(J&K) during 28 Sep – 29 Sep 2019.

33. AICTE Training And Learning (ATAL) Academy Online Elementary Faculty Development Programme on "RECENT ADVANCES IN SIGNAL PROCESSING" from 2021-08-02 to 2021-08-06 at Jawaharlal Nehru Technological University Kakinada.

Programmes Organized:

1. Three days workshop on **"CAMPUS2CAREER"**, at JNTUA College of Engineering, Pulivendula (A.P), during 29-31, July, 2013.

2. A National Level technical Symposium **"SCINTILLACE 2K14"**, at JNTUA College of Engineering, Pulivendula (A.P), during 09-10, May, 2014.

3. A National Level technical Symposium "**SCINTILLACE 2K16**", at JNTUA College of Engineering, Pulivendula (A.P), during 10-11, March, 2016.

4. A National Level technical Symposium "**ECLATECS 2K17**", at JNTUA College of Engineering, Kalikiri (A.P), during 15-16, March 2017.

5. Faculty Development Programme**on "Recent Advancements in XILINX and ASIC Designs"**, organized at the Department of ECE, JNTUA College of Engineering, Ananthapuramu (A.P), during 16-21, December, 2017.

Membership – Professional Societies:

Professional Body	Type of Membership	ID Number
Institute of Engineers (IE)	Life Member	M-152506-3
Indian Society of Technical Education (ISTE)	Life Member	LM 53573
International Association of Engineers (IAENG)	Member	143724

Declaration:

I hereby declare that the information furnished above is true to the best of knowledge

Date: Dr. D. Vishnu Vardhan

Anantapur