



Dr.VIJAYALAKSHMI CHINTAMANENI

Associate Professor

Professional Summary:

Dedicated and experienced College Professor with over 13 years of experience serving as associate professor in the Electronics and Communications Department of Various colleges. Adept in creating powerful curriculum in the fields of Electronics, Communications, Signal processing, and Image processing.

Employment History:

- Working as Associate professor in ECE Department at VGNT, HYD.
- Joined as Assistant professor in ECE Department at St. Peter's engineering college, Hyderabad. And promoted as associate professor on 10th October 2023.
October 2022–April 14th, 2024.
- Assistant professor in ECE Department at Malla Reddy college of engineering, Secunderabad
July 2018–June 2019
- Assistant professor in ECE Department at St. Martin's Engineering college, Secunderabad
June 2013–March 2018
- Assistant professor in ECE Department at TENALI ENGINEERING COLLEGE, Anumarlapudi
November 2012–May 2013
- Assistant professor in ECE Department at TENALI ENGINEERING COLLEGE, Anumarlapudi
November 2008–October 2010

Education:

Ph.d.- Grade 'A', LNCT UNIVERSITY, BHOPAL, MADHYAPRADESH

November 2018–December 2022

M.TECH-72.9%, Chirala engineering college under JNTUK, Chirala

November 2010–December 2012

B.Tech-66.23%, St. Ann's college of engineering & technology, Under JNTUH, Chirala

June 2004–May 2008

INTERMEDIATE-87.1%, NAVODAYA JUNIOR COLLEGE, Tenali

May 2002–May 2004

SSC-88.88%, Z.P.G.H.School, Duggirala

May 2001–May 2002

Personal Details:

Moulaali hb colony

Hyderabad, 500040

India.

+918309627838

vijji.lnctphd@gmail.com

Date of birth

25-08-1987

Nationality

Indian

Skills:

Fast Learner

Computer Skills

Teamwork

Microsoft Office Word

Microsoft PowerPoint

Ability to Multitask

Time Management

Microsoft Excel

Effective Time Management

Communication

Ability to Work under
Pressure

Classroom Management

Ability to Work in a Team

Microsoft Office

Communication Skills

Languages:

English

HINDI

Telugu

Highest qualification under Progress:

Post Doctoral Fellow at Eudoxia research University, USA in association with Eudoxia research Centre, India -Registered on January 2024.

★ Indian and UK Patents Published:

- Hand held Lora Communication device-Design Patent filed -waiting for response.
- OPTIMIZATION OF ANTENNA DESIGN FOR INTERNET OF THINGS (IOT) APPLICATIONS -November 2024
- Wearable monitoring device for Psychological and Psychological state assessment-UK Design number -6392287-Granted on 27th September 2024
- Smart air guardians: A Scalable IOT frame work for real-time air quality monitoring and management
July 2024
- A method for lung cancer prediction using hybrid patch processing and deep learning Models
July 2024
- IOT based electric vehicle energy consumption predicting device-Design granted-June2024.
- Exploring the positive impact of ML and Social media on academic performance and mental well being in the smart learning era: A student perspective
June2024
- IOT based glucose estimating and controlling device
January2024
- Green data centre for the human resource development model
October2023.
- Apparatus for sorting currency
April2023.
- An investigation of Internet of Things (IOT) as a plat form for putting smart technologies into higher education organizations
December2022.
- Controller based design of hybrid energy system
November2022.
- An IOT equipment based secured cloud network communication and method thereof.
January2022.
- A system for super large scale integration VLSI
January2022.

★ Text Books Published:

- A text book published with title “AI-ENHANCED PEDAGOGY **Digital Assessment,Data Analytics and Educational Management**“ in the year 2026 .
- A text book published with title **Shelters of change “Residential education for girls “** in the year 2025 .
- A Text book chapter is published on “**Design and Development of Low Cost Decision Making System for Emotion Recognition Based on Facial Action Unit by Using GoogleNet.**”,ISBN:979- 8329095319,in the year 2024 by IRTEC3.0 Eudoxia research university,USA.
- A Text book chapter is published on“ **The evolution of Block chain: Transforming industries with Distributed ledger technology**”, ISBN: 978-81-970457-9-0, in the year 2024 by SAN INTERNATIONAL SCIENTIFIC PUBLISHERS.

- A Text book on “**Internet of things (IoT) unveiled A comprehensive guide to IoT technology, Processors, Cloud platforms and Real time Applications**”, ISBN: 978-81- 970757-7-3, in the year 2024 by AASAN PUBLISHERS.
- A Text book on “**Frontend modeling for synchronous circuits based on hybrid adiabatic techniques for low power applications**”, ISBN:978-93-5747-320-0,intheyear2023byIIP PUBLISHERS.
- Two Text Book chapters published in a text book named as “**Recent Advancements and Future perspectives in electronics and computer engineering**”,ISBN:978-81-963849-5-1,in the year 2023by SAN INTERNATIONAL SCIENTIFIC PUBLICATIONS.
- A Text book on “**Cloud Based Security Management**”,ISBN:978-8196439781,in the year 2023 by SAN INTERNATIONALSCIENTIFIC PUBLICATIONS ,
<https://sanpublications.nobelonline.in/product/data-information-security-2/>
- A Text book on “**Digital image processing**” ,ISBN:978-81-965302-6-6INTHEYEAR2023 by SAN INTERNATIONAL SCIENTIFIC PUBLICATIONS
<https://sanpublications.nobelonline.in/product/digital-image-processing/>
- A Text Book on “**Fog Computing Paradigms and Applications in the Digital Era**”, ISBN No 978-93-91669-52-2 in the year 2022,by Nithya publishers, Bhopal.
https://www.amazon.in/dp/B0B2QYQ1BT/ref=cm_sw_r_pi_dp_DF99Q33AB8FDQPG1ZWH1
- A Text Book on “**Internet of Things (IOT) in real time applications**” ISBN No 978-1- 954461-48-2 intheyear2021 in ISC International Publishers, Bangalore.
https://www.amazon.in/dp/1954461488/ref=cm_sw_r_pi_dp_0YVB3QF7ED1557Q%20MW13J

★ Grants Received:

- CSIR Seminar grant of Rs25,000 received to conduct " A Three Day National level seminar on challenges in digital agriculture” in the month of June2023.
- NCW Seminar grant of Rs2,14,000 received to conduct "A Three day National level Seminar on women in decision making roles incorporate” in the month of September2023.

★ Awards Received:

- Received Research Excellence Award from sidvi foundation for presenting a paper at International conference on multidisciplinary approach of sustainability and green innovation ICMASGI-2024
- Received appreciation from St.Peter’s engineering college, Hyderabad for receiving two seminar grants one from CSIR& Second NCW, NEWDELHI for the year2023.
- Received Venus star light Inspiration women award-2024 under Professor Category in 2024.
- Received the International achievers award-2023 under the category of education field as Assistant professor on 23-12-2023from Gyan Uday Foundation.
- Received the certificate from LONDON BOOK OF WORLD RECORDS in the field of education as assistant professor on 13-12-2023.
- Awardedas"TOP10PROFESSORSOFTHEYEAR"fromkitsKraft’sfoundationfortheyear 2023.
- Awardedas"BESTPROFESSOR"fromkitsKraft’sfoundationfortheyear2023.
- Received Dr.B.R.AMBEDKAR RATNA AWARD bySaharaCharitableTrustfortheyear2023.
- Awarded as "BEST PROFESSOR" at State level by SAKALA ARTS FOUNDATION for the year 2019.
- Awarded as "BEST TEACHER" at St.Martin's engineering college, Hyderabad for the year 2017.
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★ Professional Body Membership:

- Life member of professional bodies ISTE ,IFERP ,IESRP ,IAENG etc.

★ Technical Symposiums Attended and Organized:

- Organized Bookstagram event from ECE department in the month February 2025.
- Acted as Rangoli event Coordinator from ECE department for Vignan techfest 2025.
- Organized and acted as Faculty Coordinator from ECE department forTechfest-2024 at St.Peter's engineering college, Hyderabad.
- Organized and acted as Coordinator from ECE department for Techfest -2018 at Mallareddy college of engineering, Hyderabad.
- Presented a technical paper inOISTOS-2K8A Nationalleveltechnicalsymposiumon17th,18th and 19th March 2011.
- Participated in mini project competition of national level technical symposium on12th &13th March 2007.
- Presented a technical paper on wireless communications inPRESARIO-2K6A National level technical symposium 30th& 31st January 2006.

★ Achievements:

- Received NPTEL ENTHUSIASTIC LEARNER,NPTEL BELIEVER STAR certificates for the two academic years 2023-24, 2024-25.
- Secured a score of 95 out of 120 in TOEFELiBT.
- Completed Prathamik to Rashtrabhasha Visharad exams conducted by Dakshina Bharat Hindi pracharsabha, madras.
- Became as an editorial board member and acted as reviewer for various reputed journals and conferences from past 13 years.

★ YouTube channel:

- YouTube channel with ID of DrVIJAYALAKSHMICHINTAMANENI@vijjich3621.

★ Guest lecturer given and organized:

- Acted as resource person in the FDP organized by shree Anand Vidya Prasarak Mandal's Sancheti College of arts, Commerce Science and imparted knowledge on the topic "Research paper methodology in proposal writing" for Faculty members participated on 09-01-2025.
- Organizedguestlectureon"IOT&Industry4.0"atVGNT,Hyderabad.
- Delivered special lecture on" digital signal processing filter design "at KPRIT, Hyderabad.
- Delivered special lecture on "VLSI design" at MRCE, Hyderabad.
- Guest lecturers Organized at St.Peter's engineering college, Hyderabad on Semiconductor devices and circuits.
- Guest lectures Organized at St.Peter's engineering college, Hyderabad on digital Agriculture.
- Acted as resource person in the FDP organized by JCT college of engineering & technology and impartedknowledgeonthetopic"5GNetworks&Security"forFacultymembersparticipated on 24-08-2023.
- Acted as resource person in the FDP organized by NallaNarasimha reddy college of engineering

and imparted knowledge on the topic "Future ERA of AI-Enabled AR/VR Communication" for Faculty members participated on 7-10-2023.

★ **FDP's Organized and Attended:**

- Participated in FDP on "Research Pro Tech Mastery 3.0 2025" organized by Eudoxia Research University, USA and Eudoxia Research Centre, India from 3rd June to 11th June 2025.
- Participated in FDP Research Pro Tech Mastery 2.0 2025 organized by Eudoxia Research University, USA and Eudoxia Research Centre, India from 20th to 27th March 2025.
- One week Faculty Development Program on "AI Driven Technology in VLSI Design for IOT Applications" organized by Department of Electronics & Communication Engineering at Raj Kumar Goel Institute of Technology, Ghaziabad from 30th December 2024 to 6th January 2025.
- Participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Harnessing Digital Twin Technologies to Industry 4.0 / 5.0 for Sustainable Green Manufacturing at KIT-KALAIKARNAN INSTITUTE OF TECHNOLOGY from 16/12/2024 to 21/12/2024.
- Participated & completed the QualiTech Research Faculty Development Program (FDP) organized by Eudoxia Research University, USA and Eudoxia Research Centre, India from 16th December to 24th December 2024.
- Participated in one week online FDP on "Generative AI models and applications of machine learning" held from 21st-25th May 2024 by Shri Vishnu engineering college for women, Bhimavaram.
- Participated in one week online FDP on "Quantitative Research design and applications of SPSS Software" held from 22nd-28th March 2024 by Eudoxia research university, USA-India.
- Participated in one week online FDP on "Applications of AI in Research Methods and Manuscripts drafting process" held from 23rd Feb-4th March 2024 by Eudoxia research university, USA.
- Participated in one week online FDP on "Integration of IOT & Block chain to implement smart education and health care" held from 26th Feb-1st March 2024 by GMR institute of technology, Rajam.
- Participated in one week online FDP on "Empowering Educators: Advancements in computing pedagogy" held from 12th-17th Feb 2024 by Vishwakarma institute of technology.
- Participated in one week professional development programme on "Data Science Mastery" held from 5th - 10th Feb, 2024 by VNRVJIT.
- Participated in International Faculty Development Program (FDP) titled "Free publication of manuscripts in peer-reviewed international journals" held in 29th January 2024 to 7th February 2024.
- Participated in Faculty Development Program (FDP) titled "Design & Innovation on wireless communications with advanced technology" held during 17th-22nd January 2024.
- Participated in Faculty Development Program (FDP) titled "Empowering Educators: Navigating Cutting-edge Technologies in Industry 4.0" held from 1-6th January 2024.
- Participated in Faculty Development Program (FDP) titled "Machine learning applications for mechanical engineers" organized by CVR College of engineering, Hyderabad from 18-23rd December 2023.
- Participated in Faculty Development Program (FDP) titled "Research Methodology using ChatGPT and AI Tools" organized by IQAC, LUCMR Cofmarian college Kottayam in association with the Kerala state higher education council from 21-29th September 2023.
- Participated in Faculty Development Program (FDP) titled "Green communications in 5G use cases" organized by CVR college of engineering from 21-25th August 2023.
- Participated in Faculty Development Program (FDP) titled "Cloud Infrastructure (AWS)" organized by JNTUK college of engineering, Narasaraopet from 21-25th August 2023.
- Organized Faculty development program on "Cloud infrastructure" during 21-25th August 2023.

- Participated in Faculty Development program titled "AWS Using DevOpS" organized by CMR engineering college, Hyderabad from 26-30th June 2023.
- Participated in Faculty development program on "Advanced techniques in machine learning for Data Science" organized by IIFERP from 21-23rd June 2023.
- Completed the Faculty Development Program on "IOT & Drone" organized by E&ICT Academy, IIT Kanpur from 27-02-2023 to 04-03-2023.
- Completed the Faculty Development Program on "BlockChain" organized by E&ICT Academy, IIT Kanpur from 20-03-2023 to 24-03-2023.
- Participated in an Online "Faculty Induction Programme-12" conducted by JNTUH is held on 13/02/2023 to 16/03/2023 and successfully completed with A Grade.
- Participated Faculty Development Program on Accelerate Research conducted by Dept. of Information Technology, Anurag University during 14th-18th March 2023.
- Participated in Faculty Development Program (FDP) titled "Recent trends in high frequency Communications" organized by Ananth Gyan limited from 20-24th February 2023.
- Participated in Faculty Development Program on "Applications of Computer vision using Deep Learning" Organized by SESHADRI AOGUDLA VALLERU ENGINEERING COLLEGE during 20- 25 February 2023.
- Participated in Faculty development program on "REAL TIME EMBEDDED SYSTEMS AND IOT & ITS APPLICATIONS" Organized by GHRAISON Institute of engineering & technology, Nagpur during 1-11th February 2023.
- Participated in Faculty Development Program (FDP) titled "Blockchain Technology and Applications" organized by Anurag University during 2-6th January 2023.
- Participated in Faculty Development Program (FDP) titled "Advanced AI and Data Analytics with implementation Techniques" Organized by IIFERP from 12-16th December 2022.
- Participated in Faculty Development Program (FDP) titled "Competency enhancement for young Academicians and Researchers" from 19-24th December 2022.
- Participated in Faculty Development Program (FDP) titled "Exploring Dynamics of National Education policy with reference to NAAC Perspectives" jointly organized by Sage university, Indore-Bhopal, Christian Eminent college-Indore, RFI, India from 24-30th November 2022.
- Participated in online Faculty Development Program (FDP) titled "Recent Innovation in Antennas and RF Frontend systems for 5G" , jointly organized by the Department of Electronics and Communication Engineering, CBIT Hyderabad and ARK Infosolution Pvt. Ltd from 28th to 30th July, 2022.
- Participated in a One day Online Training Program on "Blackout Prevention and Quick Service Restoration of Power System with Wide Area Measurements systems" Sponsored by Science and Engineering Research Board, Department of Science and Technology, Government of India, Organized by Department of Electrical Engineering, National Institute of Technology Warangal on 30th September 2021.
- Participated & completed successfully online FDP on "Internet of Things and Applications in 5G" from 05.01.2021 to 09.01.2021 at Easwari Engineering College, Chennai, India
- Participated in the one week Faculty Development Programme on "Advancements in Signal Processing and Optimization Techniques in WSN" held from 21/09/2020 to 25/09/2020 at "Poornima College of engineering, Jaipur".
- A Two day FDP on TI Analog, MSP430, TIVA & IOT Labs in association with Edgate Technologies Pvt Ltd.
- Participated 1 and ½ week FDP on DIGITAL IMAGE PROCESSING conducted by NPTEL in

October 2018.

- Participated one week FDP on CMOS digital VLSI Design conducted by NPTEL April 2019.

★ Seminars, Webinars and workshops organized and participated:

- Successfully completed One day national virtual seminar on “INSPIRE INCLUSION: Role of women in 21st century” on 7th March 2024.
- Successfully completed One day international workshop on “Containers and open shift” organized by ipsr solutions limited and valin -UK, USA and Canada on 28th Feb 2024.
- Successfully completed international workshop on “Research Manuscript drafting and patent filing process” from 10th to 17th February 2024.
- Successfully completed a 3-day national level workshop on “AI-Augmented scientific writing and publishing” from 14th to 16th February 2024.
- Attended a Webinar on “NAAC Accreditation & Documentation blue print by ARCNET, India and CliMed Research Solutions, India on January 22, 2024.
- Attended a Webinar on “IP awareness /Training program under National Intellectual property awareness Mission on January 19, 2024.
- Attended a Webinar on “Future of Intelligent connectivity with 5G/6G using Ansys from 17th-18th January 2024.
- Attended a Seminar on “Career Guidance and Counseling” organized by MCMF on 19th December 2023.
- Successfully completed international workshop on “Research method and Methodology” organized by Eudoxia Research University, ERU-USA from 18th-26th December 2023.
- Attended a workshop on “Shaping the Future: Semicon Talent Revolution in India” organized by VNRVJIEET on 9th December 2023.
- Organized A Three-day national level seminar on “Women in decision making roles in corporate” sponsored National Commission for women, New Delhi from 25-9-2023 to 27-9-2023 at St. Peter's engineering college, Hyderabad.
- Participated in a webinar on “IP awareness/Training program” under national intellectual property awareness mission on 26th July 2023.
- Participated in a webinar on “Ansys Dynamic meshing conducted by ARK Info Solutions Pvt Ltd on 28th July 2023.
- **Organized** A Three-day national level seminar on “challenges in digital Agriculture” sponsored CSIR; New Delhi from 15-6-2023 to 17-6-2023 at St. Peter's engineering college, Hyderabad.
- Participated in Webinar on “NEP-2020 Implementation Plan: Integrated Higher Education System” On 13/03/2023 organized by JNTUH.
- Participated in Webinar on “NEP-2020 Implementation Plan: Innovation & Rankings” on 20/03/2023 organized by JNTUH.
- Participated online/offline Two Day National Workshop on “Emerging Trends in Power Engineering” conducted by the Department of Electrical Engineering, NIT Warangal from 30-Jan-2023 to 31-Jan-2023.
- Participated in Two Day virtual Workshop from 11-01-2021 to 12-01-2021 on ‘Scope of Innovation in Engineering & Technology’ organized by IIC of Greater Kolkata College of Engineering & Management.
- Participated the International Workshop on Accelerate Research, conducted online during 22nd - 26th September 2020.

- Completed 12 week online course conducted by NPTEL on DIGITAL IMAGE PROCESSING from June-2018.
- Attended two day workshop on “graphical system design with LABVIEW” held at JNTU, HYDERABAD.
- Attended one day workshop on “Advanced Programming Techniques with MATLAB” held at JNTU, HYDERABAD.
- Attended one day awareness workshop on “Intellectual Property Rights and Patents” at Baba Institute of Engineering And Technology, Vishakhapatnam.
- Attended two day national level workshop on “DSP Applications in Modern Communications” at SACET, CHIRALA.
- Attended NPTEL Workshop on "CI/CD-DevOps Automation and DevSec Ops-Automation in December 2022.

★ **National/ International Conferences Attended & Papers published:**

- Presented a paper titled "Deep learning based IoT Systems for early detection of Neurological Disorders Using Wearable sensors" in ICDSA 2025.
- Presented a paper titled "Hybrid cloud based image processing and AI model for real time kidney stone prediction in healthcare systems" in ICCES 2025.
- Presented a paper titled "MQTT Protocol stack optimization with edge-to-cloud hierarchical architecture and COAP Light weight Alternatives" in DMCMICS 2025.
- Presented a paper titled "YOLOv6 based cutting edge technology for salient object detection" in API Conference Proceedings June 2025.
- Presented a paper titled "Smart Cities, Intelligent Solutions: A Deep Learning Approach to Urban Planning and Infrastructure Optimization" Published in IEEE on 16 May 2025.
- Presented a paper titled "Predictive Stress Management for Higher Education Faculty using DCNN and LSTM Models" in 2025 3rd International Conference on Integrated Circuits and Communication Systems (ICICACS).
- Presented a paper titled "Analysis of Used Vehicle Value Prediction using Machine Learning" in ICIPCN 2024.
- Presented a paper titled "Revolutionizing farming: An analysis of IOT based smart agriculture monitoring system" in IEEE 2024.
- Presented a paper titled "Enhancing Cloud Security: A Hybrid AI Approach for Intrusion Detection Using Convolutional Neural Networks and Stochastic Gradient Descent Algorithms" in IEEE (ICESC-2024).
- Participated in the 4th international conference on recent trends in multidisciplinary research COM4.0-2024 from 29th to 30th March 2024 Organized by Eudoxia research university, New Castle, USA.
- Participated in the 2nd international conference on advanced research methods, tools and techniques for multidisciplinary research MRD 2.0-2024 from 20th to 21st February 2024

Organized by Eudoxia research university, USA.

- Presented a paper titled "Design and Development of low cost decision making system for Emotion recognition based on facial action unit by using GOOGLNET" in IRTEC2.02024 from 18-19th January 2024 organized by Eudoxia research university, USA.
- Presented a paper titled "IOT Based Home Long-term Daily Needs of People with disabilities using ML" in ICRRCTEEE 2023 on 9th JULY2023.
- Presented a paper entitled "GSM and GPS-based Ultra High security System with Camera Surveillance" at the International Conference on Robotics, Communication technology, Electronics, and Electrical Engineering(ICRRCTEEE)held in Hyderabad,Indiaon09thJuly,2023.
- Presented a paper titled "A Smart Campus Using Super Sensor Nodes with Thing Speak IOT"ICETET-2023 from 9-10th June 2023.
- Presented a paper titled "ATTAINMENT OF CO,PO AND PEO-Case Study Approach" at internationalsummitonqualityindicesinHigherEducationorganizedbyESCI,Hyderabadfrom 15th - 17th March 2023.
- Presentedapapertitled"Ensuringproperlearningbyactivelearningtechniquesandcollaborative learning" at international summit on quality indices in Higher Education organized by ESCI, Hyderabad from15-17th March 2023.
- Presented a paper titled "Significant Analysis of Entrepreneurship Course in Engineering Curriculum" at international summit on quality indices in Higher Education organized by ESCI, Hyderabadfrom15-17th March2023.
- Presented a paper titled "A Compressive Overview of facial feeling responses utilizing AI and profound learning" in ICACCS 2023 ON 17-18thMarch2023.
- Presentedapapertitled"HighGainMoreStableSelfBiasedTwoStageDifferentialAmplifierfor Bio-signalProcessing"ICACCS-2023On17th-18thMarch2023.
- Presentedpapertitled"AIBasedsmartfarmingtechnologyusingIOT"InICISSC2022organized by MALLAREDDY UNIVERSITY in December 16th -17th,2022.
- Presented a paper titled "High Speed Implementation On Intuitive Prediction For Memory AddressingWithConvolutingModels"ICEARS-2022,PublishedatIEEEExploreMarch2022.
- Presented a paper titled "Implementation Of Automatic Driver Drowsiness Alert System by Using IOT" ICTIMES-2018, DECEMBER2018.
- Presentedapapertitled"BookingSystemofAVehicleParkUsingIOTTechnology"ICTIMES-2018, DECEMBER2018.

★ Papers Published at National/International Journals:

- Published a paper titled " Unmasking Cyber Adversaries: Leveraging Cyber Threat Intelligence for Attacker Behavior Analysis" in International Journal of Engineering Technology and Management Sciences Special Issue: 1 Volume No.9 March - April - 2025.
- Published a paper titled " Insider Threats in the Age of Cyber Threat Intelligence: Behavioral Indicators and Detection Strategies" in International Journal of Engineering Technology and Management Sciences Special Issue: 1 Volume No.9 March - April - 2025.

- Published a paper title as "Women's Smart Safety bag: Combining Protection and Elegance "in Juni khyat UGC CARE group 1 listed journal in December 2024.
- Published a paper title as "Automated Video Transformation for PIB Press Release: A Literature Survey" in Juni khyat UGC CARE group 1 listed journal in November 2024.
- Published a paper title as "Hardware optimization for effective switching power reduction during data compression in GOLOMB rice coding "in PLOS ONE on 26th Sep 2024.
- Published a paper title as "Optimizing TEM image segmentation : Advancements in DRU-Net Architecture with dense residual connections and attention mechanisms. "in ETASR August 2024.
- Published a paper title as "Deep learning based diagnostic model for automated detection of monkeypox: Introducing Monkeypoxnet" in iijeta journal (SCI) on 29th Feb 2024.
- Published a paper title as "Smart Agriculture-Automatic Monitoring of Soil Moisture and Irrigation control for Farming Land" in Current Agriculture Research Journal on 19th Dec 2023.
- A paper accepted for publication titled as "Monkey pox net: A Deep learning model for automatic Detection of Monkeypox from Skin Images" in Traitement du signal in 2023.
- A paper accepted for publication titled as "Cardiac net: Cardiac Arrhythmia Detection and Classification using Unsupervised learning based optical feature selection with custom CNN Model" in informatica journal 2023.
- Published a Paper titled as "Hybrid State Analysis with Predictive Model Control on Memory Controller using Machine Learning Algorithms" in IJET ISSN: 2231-5381, volume 70 issue 4, April 2022.
- Published a paper titled as "Adiabatic Technique Usage for the Analysis of Power Dissipation in Logic Gates "in TJCME volume 12 No 12, 2021.
- Published a paper titled as "Heuristic Approach on Probabilistic Model for Implementing Power Reduction Using Adiabatic circuits for Memory Logics" DE ISSN: 0011-9342, YEAR 2021, Issue 6.
- Published a paper titled as "Design and Analysis of a Multilayer Substrate Single Patch Mspa For Improving The Angular Width and Directivity For Mobile Applications" IJRAR JUNE 2019, VOLUME 6, ISSUE 2."
- Published a paper titled as "Empowering Time Critical Evidence In Search Of Social Media "IJITEE, VOL 8, ISSUE 7, MAY 2019. "
- Published a paper titled as "Water Quality Measurement Implementation with the Help of IOT Technology "IJRAR, VOL 6, ISSUE 1, JANUARY 2019."
- Published a paper titled as "Appreciation Of Vehicle Parking Slots Using IOT Platform" IJRAR, VOL 5, ISSUE 4, DECEMBER 2018."
- Published a paper titled as "Analysis of Intrinsic Factors Which Influencing the Temperature Dependence of the Id-Vds-Vgs Characteristics of Hetero structure Tunnel FETS Based on GaSb /InAs Tunneling Junctions "IJR, VOL 5, ISSUE 20, SEPTEMBER 2018."
- Published a paper titled as "A System to Monitor Power Transformer In REAL-TIME By Using Load" IJR, VOL. 4, ISSUE 14, NOVEMBER 2017."
- Published a paper titled as "Posture Recognition of Standing Human bodies In Static Images"

IJMETMR, VOLUME:3(2016), ISSUE:7,JULY2016."

- Published a paper titled as "A Hybrid Encryption Algorithm Based On AES And RSA" IJIRCCE, VOL.4, ISSUE 1, JANUARY 2016.
- Published a paper titled as "Implementation of Carry Save Adder in Radix 10 Multiplier", IJAREEIE, VOL.4, ISSUE 11, and NOVEMBER 2015.
- Published a paper titled as "Low power pass transistor logic flip-flop" IJAREEIE, VOL.3, ISSUE 5, MAY 2014.

★ Courses Organized:

- Successfully organized the "A 21 day online course on Java programming" from 7-02-2024 to 27-2-2024 for students.
- Successfully organized the "A 21 day online course on Internet of things" from 25-12-2023 to 24-1-2024 for students.
- Successfully organized the "A 30 day online course on Data Science" from 8-11-2023 to 2-12-2023 for students.

★ Courses:

- Successfully completed NPTEL Certification course of "Google Cloud Computing Foundations" in 2024.
- Successfully completed NPTEL Certification course of "Fundamentals of electronic device fabrication" in 2024.
- Successfully completed NPTEL Certification course of "Introduction to Operating systems" in 2024.
- Successfully completed NPTEL Certification course of "Digital circuits" in 2024.
- Successfully completed NPTEL Certification course of "Cloud Computing" in 2024.
- Successfully completed NPTEL Certification course of "Introduction to Internet of things" in 2024.
- Successfully completed A certification program in "Mechanics of manuscript, Thesis and funding of research project with application of AI" from 11th to 22nd march 2024 organized by Eudoxia research university, USA-India.
- Successfully completed A Value added course authorized and approved by CBIT "Python programming for beginners" from Sep-Dec 2023 (16 weeks).
- Successfully completed Udemy course "Introduction to R programming course" on 15th December 2023.
- Successfully organized a course "Data Science" from 8-11-2023 to 2-12-2023.
- Successfully completed BluePrism Foundation training course on 20th June 2023.
- Successfully completed BluePrism process templates course on 21th June 2023.
- Successfully completed BluePrism Associate Developer next step course on 23rd June 2023.
- Successfully completed BluePrism Advanced attribute matching -course on 23rd June 2023.
- Successfully completed BluePrism Advanced data items course on 23rd June 2023.
- Successfully completed BluePrism credentials and credentials manager course on 23rd June 2023.

- Successfully completed Blue Prism Associate developer certification readiness-webinar on 23rd June 2023.
- Successfully completed Blue Prism Associate developer (EN-2021) on 23rd June 2023.
- Successfully completed NPTEL Certification course of "Computer Networks and Internet Protocol" in 2023.
- Successfully Completed Coursera certification on "Plastic electronics" in March 2023.
- Successfully completed Coursera Certification on "Solar energy Basics" in January 2023.
- Successfully completed AWS training and certification on "AWS Cloud practitioner essentials" in January 2023.
- Successfully completed the Associate Developer Educator Training as part of BLUE PRISM ACADEMI PROGRAM in the field of Robotic Process Automation in August 2023.
- Successfully completed Coursera Certification on "Industrial IOT fundamentals on AWS" in March 2023.
- Successfully completed Coursera Certification on "IOT Communications" in March 2023.
- Successfully completed Coursera Certification on "Cryptography" in March 2023.
- Successfully completed Coursera Certification on "Wireless Communications for Everybody" in February 2023.
- Successfully completed Udemy certification on "Python programming-For beginners" in November 2022.
- Successfully completed Coursera Certification on "Introduction to solar cells" in December 2022.
- Completed NPTEL Course on "Digital image processing" in June 2018.

★ **Policy Making:**

- BoS Member, Department of ECE, Pallavi Engineering College (PEC) (Autonomous), 2024-25 to Till Date.

★ **Ratification/SCM Details:**

- Ratified as Assistant Professor from JNTUH. SCM held on 01-03-2017 at St. Martin's engineering college, Hyderabad. JNTUH Registration ID: 6952-150408-152458.
- Guided various projects to UG & PG students at various Institutions.

★ **Programming Skills:**

Programming language:

C, C++, SQL, Verilog Hardware Description Language, MATLAB, Keil C, Xilinx vivado, Arduino IDE

★ **Skills & Responsibilities Held at various Institutions:**

- Held responsibility as of a chairperson for WOMEN'S Cell at VGNT, HYDERABAD.
- Held responsibility as of IIC Member for VGNT, HYDERABAD.
- Held responsibility as of Course File Coordinator.
- Held responsibility as of students achievements file Coordinator.
- Held responsibility as Coordinator for NBA & NAAC Accreditation process.

- Thorough understanding of the subject with ability to convey the same to the students.
- Good communication and comprehension abilities.
- Held responsibility as IQAC member of IQA Committee.
- Posse's knowledge about the internal administrative tasks that are performed within institutions.
- Posse's knowledge about the internal Audits that are performed within institutions
- Guiding projects to B.Tech and M.Tech students.
- Held responsibility as coordinator of NBA 7 Point of SAR (Teaching learning processes).
- Held responsibility as member of NAAC 2.3 (Teaching learning processes).
- Held responsibility as IQAC member of IQA Committee.
- Held responsibility as Industrial visit and internship cell coordinator of Industrial visit and internship cell Committee.
- Held responsibility as coordinator of NBA 7 Point of SAR (Continuous improvement)
- Held responsibility as coordinator of NBA 1 Point of SAR (Vision and Mission).
- Held responsibility as coordinator of NBA criteria 4 (Student Performance).
- Held responsibility as coordinator of Staff grievance committee cell.
- Held responsibility as of M.Tech Coordinator.

Declaration:

There by declare that the information mentioned above is true to the best of my knowledge.

Place: Hyderabad.

Date: 25-07-2025

Dr.VIJAYALAKSHMI CH