

Name of Faculty Dr. M. L. N. ACHARYULU  
 Designation Associate Professor  
 Date of Joining 30-01- 2021  
 E-mail mlIncharyulu\_ece@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (ECE) JNTU,Hyderabad	Awarded
PG	M.E(Microwave &RADAR) OSMANIA UNIVERSITY AMIETE (ECE)	First Class
UG	IETE,NEW DELHI	First Class

#### Work Experience

Teaching	25 Years (Including Research)
Research	05 Years
Industry	--
Others	--
Area of Specialization	Microwave & Radar, VLSI ,Antennas
Professional Memberships	MIEEE, LMIETE, LMISTE, LMIAENG IEEE Solid-State Circuits Society (M)
Responsibilities held at Institution Level	Member of NITTR
Responsibilities held at Department Level	<ol style="list-style-type: none"> <li>1. Co-ordinator for Department Antiragging Committe</li> <li>2. Member, Course Expert Group.</li> <li>3. Member,NBA Criterions (6&amp;10) for department</li> <li>4. Member, CIE</li> <li>5. Class In charge</li> <li>6. Professional Society coordinator</li> <li>7. Department Budget coordinator</li> <li>8. OMC Coordinator</li> <li>9. Mentoring Project</li> </ol>
Research Guidance	--
Awards Received	--

Courses Handled at Under Graduate / Post Graduate Level.  
 EMTL, AWP, MWE, Radar, EDC,S&S,VLSI,SC,NATL,RFIC,GPS, CMC,EMI,CPLD&FPGA,LPVLSID,DRONES&APPLICATIONS, EMTL,AWP,Signals and Systems,Analog Communications,Linear Integrated Circuit Applications,Satellite Communications,Radar Systems,Cellular and Mobile Communications Television Engineering,VLSI Design Telecommunication Systems and Services Electro Magnetic Interference & compatibility RF Integrated Circuits,GPS

No. of Papers Published  
 National Journals - Nil International Journals - 25  
 National Conference - 04 International Conference - 03

Patents  
 1.A novel method and system to improve security and QOS parameters in MANETS, 22/09/2020 (published)  
 2.AI BASED DRONE FOR MEDICAL LOGISTICS DELIVERY (GRANTED) UK PATENT  
 3.IOT Enabled Respiratory Sensing Device Indian Design (Filed)

Technology Transfer

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Invited Speaker

1. Lectures (5) on "Antenna & Wave propagation" on 2007 August organized by MLRIT, Dept. of ECE
2. A Lecture on "Evolution of technology in Micro Electronics" on 19-10-2012 organized by BVCE, ODALAREVU, Dept. of ECE.
3. A Lecture on "Microwave antennas" on 28-03-2013 organized by BVCE, ODALAREVU, Dept. of ECE
4. A Lecture on "Impulse radiating antenna design and applications" on 18-12-2018 in faculty development program organized by SNIST, Hyderabad Dept. of ECE

No. of Books/Chapter Published with details

1. Investigation on routing methods in low power VLSI Scenario Scholars press, S.R.L. Publisher ing group, EUROPE 978-613-8-95526-9, June, 2021, Dr.M.L.N.Acharyulu, Dr.N.S.M.Sarma, T.Rama Swamy
2. Design of conical TEM feed for an Impulse radiating antenna, Lambert Academic Publication, June /2012, m.l.n.acharyulu, dr.n.s.murthi sarma, Prasanna Rajan ISBN :978-3-8484-1094-1
3. Microstrip L Band Filter For Clock Source At Submeter Wavelength, Lambert Academic Publication, Aug/2012, Mohan, M.L.N.Acharyulu, Dr.N.S.M.Sarma ISBN:978-3-8484-1308-9

1. Attended webinar on "Antenna protocols" organized by department of electronics and communication engineering, RVS College of engineering & Technology, Coimbatore on 1.6.2020
2. Participated webinar on "Next generation AI Technologies for Cyber Physical Systems" organized by St.Peters Engineering college, Hyderabad on 13.05.2020
3. Enhancement of latest VLSI technology seminar conducted by AARK IC TECHNOLOGIES in 2022
4. Leadership and Governance in higher education level-2 exam certificate from MHRD, NTA in 2021 Jan to April.
5. "Augmented Reality and Virtual Reality" work shop conducted by Department of E&TC Engineering, AISSMS College of Engineering, Pune (Maharashtra). 21.06.2021 to 25.06.2021 sponsored by AISSMS College of Engineering association with IEEE, IE(I), ISTE.
6. National Level Five-Days Online Workshop on "MATLAB and its Applications in Image Processing and Communication" conducted by the Department of Electronics and Communication Engineering, SRM TRP Engineering College, Tiruchirappalli on 21.02.2022 - 25.02.2022. Department of Electronics and Communication Engineering in Association with IETE and IIC
7. weak FDP on Communication systems using machine Learning Algorithms 14.03.2022 TO 19.03.2022 conducted by AIETS, HYDERABAD

#### FDDF

1. Attended workshop on "VLSI CIRCUITS ANALOG AND DIGITAL DESIGN PERSPECTIVES" Organized by department of ECE, JNTUA College of engineering associated with ASM Semiconductors and HCL Technologies 16.5.2020 to 17.05.2020.
2. actively participated in the Two-day workshop on "Wired and Wireless Network Simulation using Network Simulator (NS-2)" organized by dept of ECE, St.peters Engineering college, from 19.05.2020 to 20.05.2020.
3. actively participated in "one week National Level Faculty Development program on Innovation to Academicians" organized by National Science And Technology Entrepreneur Ship Development Board, DEPARTMENT OF SCIENCE AND TECHNOLOGY, GOVT.OF INDIA and Ramachandra College of Engineering, ELURU, AP(st) From 11.5.2020 to 16.5.2020

4. Attended webinar on "CHALLENGES IN CYBER SECURITY " organized by department of electronics and communication engineering ,saveetha engineering college,Chennai on 14.5.2020
5. Attended 3day webinar Faculty Development Program on "IOT with Artificial Intellegent in collaboration with 360Dogi TMG "organized by department of electronics and communication engineering, sir CR Reddy College of engineering,Eluru from 27.5.2020 to 29.05.2020.
6. Participated in the faculty development program on "Research Paper & Project Proposal Writing" under IEEE Student Branch held on 15-May to 16-May, 2020 organized by the Department of Electrical and Electronics Engineering,SREE VIDYANIKETHAN ENGINEERING COLLEGE(A), Sree Sainath Nagar, A. Rangampet, Tirupati
7. Participated in online Faculty development program on Renewable Energy sources: A Way Ahead organized by mechanical dept in association with ASM international Pune Chapter and ISARAE Nagpur chapter "Organized by CUMMINS COLLEGE OF ENGINEERING FOR WOMENS, NAGPUR MH(st)15 th may to 21 may 2020.
8. participated 2-week AICTE Funded Faculty Development Programme on Pedagogical Training on Outcome Based Education slot 1 conducted in the online mode from 2nd Nov to 16th Nov 2020 organized and Hosted by St.Peters engineering College(A),Hyderabad

Details of Conferences and International Publications/ (National and International) Journal from the year 2017

1. **Design and Analysis of Frequency Tunable LP to CP Convertor Loaded Silicon-Graphene based MIMO Array Antenna in THz regime (SCI -Q2 ) JOURNAL OF OPTICS**
2. Acharyulu,MLN.; Murthysarma, K.Lalkishore ;, Novelty of Multi Route Coding for Reduction of IR Drop " International Journal of Grid and Distributed Computing Vol. 13, No. 2, (2020), pp. 785 – 791 (SCI JOURNAL)
3. Acharyulu,MLN.; Murthysarma, K.Lalkishore ,”Multi route coding for reduction of IR drop losses and length” international journal of research and development ,volume 4,Issue1, January 2019.
4. Acharyulu, MLN.;N.S. Murthy sarma, K. Lal Kishore, “Novelty of diagonalpower routing in design of op-amp at nanometer scale” international Journal of Communication Engineering and Its Innovations Volume 4 Issue 1,Page 1-14 MAT journals 2018
5. Acharyulu, MLN.;N.S. Murthy sarma, K. Lal Kishore, “validation of diagonal power routing approach in very large scale integrated circuit design for better prospects over orthogonal routing at nano metre era”CVR Journal of Science &Technology, Volume 12,June 2017
6. Acharyulu, MLN.;N.S. Murthy sarma, K. Lal Kishore, “Adressing of Electromagnetic Interference Aspects in VLSI design”, International Journal of Advanced Research in Computer and Communication Engineering Copyright to IJARCCCE DOI 10.17148/IJARCCCE.2016.5652 242 Vol.No. 5, Issue No. 6, June 2016.
7. Acharyulu, MLN.;N.S. Murthy sarma, K. Lal Kishore, “Literature Review on High Frequency Affects and Methodologies in Reduction of EM Interference and IR Drop in VLSI Circuits,” IJIREICEVol.No .4, Issue No. 5, May 2016
8. Acharyulu, MLN.; N.S.Murthysarma, K.Lal Kishore “Minimization of IR Drop Using Diagonal Power Routing Technique in Nanometer Era in VLSI” , International Journal of Scientific Engineering and Technology Volume No.4 Issue No.4, pp: 247-251 , April. 2015
9. Acharyulu,MLN.;N.S.Murthysarma, K.Lalkishore,“Electromagnetic Interference Reduction Technique For Dynamic IRdrop Reduction” ,International Research Journal Of Sustainable Science & Engineering.Volume No:2, Issue:No: 2 , 2014.
10. Acharyulu,MLN.; N.S.Murthysarma, K.Lalkishore, “Investigation of Inductance effects reduction in IR drop analysis using diagonal power routing in Power grid circuits in VLSI,” International Journal of Scientific & Engineering Research, Volume 4, Issue 11, November-2013
12. Acharyulu,MLN.; Murthysarma, K.Lalkishore “A Novel Approach of Inductive Effects and Reduce IR Drop in High Speed Vlsi,” International Journal of Engineering Research & Technology (IJERT)Vol. 2 Issue 10,October – 2013
13. Acharyulu,MLN.; Murthysarma, K.Lalkishore “Investigation of Electromagnetic Interference in CMOS PowerDistribution Networks”,International Journal of Engineering Research Volume No.2, Issue No. 7, pp : 424-431 , Oct. 2013
14. Acharyulu MLN; Murthi sarma NS; Madanmohan MS,”Adaptive array algorithm for electromagnetic modelling”, International journal of wireless communication andTechnologies;Dec '12 -Jan '13.

15. MurthySharma,N.S.; M.L.N.Acharyulu, B.rajayalakshmi and K.Lalkishore,“Investigation Of EMI/EMC inspects in Design Of a S band Band Pass Filter Using VLSI,” (IJ-ETA-ETS), Vol. 4 No.1, P.37-42, January, 2011
16. Acharyulu,MLN.; Murthysarma “Lens shaping for impulse antenna used formicrowave applications”,International journal of computing andbusiness systemsVolume No.4, Issue No. 7, July,2011
17. Acharyulu MLN; murthy sarma NS; Naga Raju A; “Electromagnetic simulation and design of a conical feed of an impulse radiating antenna formicrowave applications”.International journal of electrical, electronics and computing technology, Sept -December 2011
18. G.Aruna Kumari; Acharyulu MLN; “Brain tumor detection and classification using active contour and SVM” International journal of Management, technology andEngineering,october 2019.
19. Acharyulu MLN, Balraju,Bheem sing,Manvitha;,”Implementation Of Spi Protocol In Fpga And Validation With Various Inputs” ,JCRT\_195387,june 2020
20. Acharyulu MLN,Suhitha reddy: “A Novel Approach of ONOFIC Method to the Minimization of Leakage Power in CMOS Circuits”, International Journal of Electronic Design Engineering, Volume-7, Issue-1 (January-April, 2021)

#### International /National Conferences from the year 2017

1. **M L Charyulu, Nakka Mani Kanth and Vivek Singh Kushwah, Sr. 13th IEEE International Conference on Communication Systems and Network Technologies (CSNT 2024).**
2. **Vivek Singh Kushwah, Sr. and M L N Charyulu “ANN Model for Designing Stub Microstrip Low-Pass Filters”, 13th IEEE International Conference on Communication Systems and Network Technologies (CSNT 2024)**
3. Acharyulu,MLN.;Arun kumar sarma;,”Wireless power generation using solar power satellites and Rectenna”,proceeding of 1st National conference, BMCT Indore,27th&28th April 2012
4. Acharyulu,MLN.; Murthysarma, K.Lalkishore ‘Investigation of Inductive effects and IR drop Analysis in high speed VLSI circuits” proceedings of 59th IRF international conference pune ,India. pp.68-75 03rdJuly 2016
5. Acharyulu,MLN.; Murthysarma, K.Lalkishore “Evaluation and analysis of the dynamic voltage IR drop using diagonal power routing method” Proceedings of National conference on modern electronics & High speed communications, SNIST,Hyderabad pp.2-5, 29-30 ,July 2016.
6. Acharyulu, MLN.; Murthysarma, K.Lalkishore;,”Validation of Diagonal Power Routing Approach in Very Large Scale Integration Design for Better Prospects over Orthogonal Routing atNanometre Era” International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017)”IEEE conference Chennai section SKR Egeineering college Poonamalle, Tamil Nadu 1st&2nd August of 2017
7. Acharyulu,MLN.; Murthysarma, K.Lalkishore , “Novelty of diagonal power routing in design of op-amp at nanometre scale”Conference Proceeding of National Conference on Signal Processing & Communication,6&7 April 2018.
8. Acharyulu, MLN.; Murthysarma, K.Lalkishore;,”Lens antennas for microwave applications .Proceedings of international conference on electrical ,Electronics and Communication Engineering (ICEECE 2018)SPEC,Hyderabad ,27th&28th of APRIL.2018.
9. Acharyulu,MLN.; Murthysarma, K.Lalkishore;,”multi route coding for reduction of power dissipation and length for nano meter technology”.international conference on computer science,Electrical ,Elctronics and communication Engineering ,in SPEC,Hyderabad ,2020 October

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