DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE Affiliated to JNTU Kakinada)

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FACULTY PRPOFILE

Name of the Faculty	R. Chandra Sekhar
Designation	Assistant Professor
Date of Joining	01-06-2024
Nature of Association	Regular
Email & Phone No	**chandrasekharece403@gmail.com**
Department	Electronics and Communication Engineering

EducationalBackground

1. Pursuing Ph.D at NIT, Rourkela (5G/6G, Wireless communications)
2. M.Tech (Communication Signal Processing), GVPCOE, JNTUK
3. B.Tech (ECE) from LITAM, JNTUK, Kakinada

Areas of Specialization	5G/6G
Research Areas	Communications
Experience	11 Years

Sl. No	Institute	Designation	Period
1	Dhanekula Institute of Engineering & Technology, Ganguru	Assistant Professor	01-06-2024 - till date
2	Anil Neerukonda Institute of Science and Technology, Visakhapatnam	Assistant Professor	01-06-2017 – 31-05-2024
3	Gudlavalleru Engineering College, Gudlavalleru	Assistant Professor	10-06-2014 – 25-05-2017
4	NRI Institute of Technology, Guntur	Assistant Professor	01-11-2013 - 31-05-2014

List of Publications (National and International Journals):

1. **R.Chandrasekhar**, Poonam Singh "Optimization of Resource Allocation in 5G Networks: A Network Slicing Approach with Hybrid NOMA for Enhanced uRLLC and eMBB Coexistence" International Journal of Communication Systems, IJCS-23-0264. **(SCI Accepted for Publication).**
2. **R.Chandrasekhar,** G.Monika, V.S. Preeti, K. Sindhuja and S. Pavan Srinivas Reddy "BER Analysis of NR-LDPC Decoding Algorithms for Next Generation Wireless Communications" Journal of Critical Reviews ISSN-2394-5125 Vol 7 Issue 05, 2020 page numbers 1368-1378. **(Scopus)**
3. **R. Chandra Sekhar**, K. Rushendra Babu, K.Yashoda, D. Nagamani "Optimaization of PAPR using Non-Linear Companding with Weighting Function for MIMO-OFDM Systems" International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-5S4, February 2019 page numbers : 393-398 **(Scopus)**
4. **R. Chandra Sekhar**, M.V.L.Padma Priya, K.Abhishek,K.Suresh Vidya, M.Prem Kumar "Comparison of OFDM FBMC and UFMC under Different Parameters" Journal of Applied Science and Computations Volume VI, Issue I, January/2019, ISSN NO: 1076-5131 Page No:2965- 2973 **(UGC Approved Journal)**
5. **R. Chandra Sekhar,** A. Lavanya, A.Tejaswini, Ch. Kamal Chand, B. Sai Vamsi "Performance Analysis of Channel Estimation using ZF and MMSE for MIMO-FBMC System" Journal of Applied Science and Computations Volume VI, Issue III, March/2019, ISSN NO: 1076-5131, Page No:2051- Page No:2059 **(UGC Approved Journal)**

6. V. Gopi, B. Ajay Kumar, **R. Chandrasekhar**, "Channel hopping Algorithm in Cognitive Radio Networks", International Journal of Advanced Research in Computer and Communication Engineering, Vol. 5, Issue 8,pp:383-386, August,2016 (**Peer-Reviewed & Google Scholar Index**)
7. P. Vidyullatha, **R. Chandrasekhar,** K. Rushendra Babu, B. Ajay Kumar "Performance Analysis of PAPR in STBC MIMO-OFDM System under Different Modulation Schemes" International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE) Vol. 5, Issue 1, January 2016 ISSN (Print): 2320 – 3765 ISSN (Online): 2278 – 8875 Page Numbers 551-558. (**Peer-Reviewed & Google Scholar Index**)
8. **R. Chandrasekhar**, P. Vidyullatha "Peak to Average Power Ratio Reduction Using Modified SLM in MIMO-OFDM Systems" International Journal of Innovations in Engineering and Technology (IJIET) Volume 6 Issue 1 October 2015 ISSN: 2319 – 1058 Page Numbers 28-38. (**Peer-Reviewed & Google Scholar Index**)

National/International Conferences ((National and International) :

1. **R.Chandrasekhar**, Poonam Singh "Performance Evaluation of Cooperative Non- Orthogonal Multiple Access for Next Generation Wireless Communications" International Conference on Advancement in Electronic Systems and Communication Technologies, ICAESCT-2022 proceedings, Nov 2022, 978-93-5680-349-13.
2. **R.Chandrasekhar**, R. Navya, P. Kusuma Kumari, K. Kausal, V. Bharathi, Poonam Singh "Performance Evaluation Of MIMO-NOMA For The Next Generation Wireless Communications" 2021 3rd International Conference on Signal Processing and Communication (ICPSC) 13-14 May 2021 Coimbatore, India **DOI:** 10.1109/ICSPC51351.2021.9451780
3. **R.Chandrasekhar,** G.Monika, V.S. Preeti, K. Sindhuja and S. Pavan Srinivas Reddy "BER Analysis of NR-LDPC Decoding Algorithms for Next Generation Wireless Communications" International Conference on Recent Trends in Electronics, Computing and Communication Engineering (ICRTECC-2020) organized by Department of Electronics and Communication Engineering Saveetha School of Engineering during 15th – 16th July 2020 **(Scopus)**
4. **R. Chandra Sekhar**, K. Rushendra Babu, K.Yashoda, D. Nagamani "Optimaization of PAPR using Non-Linear Companding with Weighting Function for MIMO-OFDM Systems" International Conference on 5G communications Applications and Technologies (5GCAT-18) organized by Vignan's Foundation for Science, Technology & Research, Guntur during 5th – 6th December 2018. **(Scopus)**
5. **R. Chandrasekhar**, B. Ajay Kumar **"**Cooperative Spectrum Sensing in Cognitive Radio Networks using Fuzzy Logic" **Springer International Conference** on Electronics and Communication Engineering (ICIECE-2017) 20th -21th July 2017, Guru Nanak Institutions, Hyderabad, Lecture Notes in Networks and Systems 372, ISBN 978-981-10-3811-2, page numbers 127-132. **(Scopus)**
6. **R. Chandrasekhar**, M. Kamaraju, K. Rushendra Babu, B. Ajay Kumar " Optimization of Peak to Average Power Ratio Reduction using Novel Code for OFDM Systems" Springer International Conference on Microelectronics, Electromagnetics and Telecommunication (ICMEET-2015) 18th -19th December 2015, Visakhapatnam, ISBN 978-81-322-2726-7, page numbers 267-275. **(Scopus)**
7. **R. Chandrasekhar**, M. Kamaraju, M. V. S. Sairam, G. Tirumala Rao "PAPR Reduction using the Combination of Precoding with Mu-Law Companding Technique for MIMO-OFDM Systems" IEEE International Conference on Communication and Signal Processing (ICCSP)**,** 2nd- 4th April 2015, India. ISBN 978-1-4799-8080-2, page numbers 481-485. **(Scopus)**
8. **R. Chandrasekhar**, M. V. S. Sairam, G. Tirumala Rao "PAPR Reduction using Pre-coding in MIMO-OFDM systems", two day national conference on Advances in Radar, Communications and Network Enabled Technologies (ARCNET) 6th-7th September 2013 NSTL, Visakhapatnam.

Achievements / Awards etc.,

1. Industry certified in **Masters Diploma in Mobile Communication Software Technology** – New Generation Training designed to develop skills in LTE & 5G Protocol Development, Protocol Testing and Deployment on UE, RAN and Core platforms **(A+ Grade).**
2. Selected and completed 8 weeks "**Summer Faculty Research Fellowship (SFRF-2020)" conducted by IITD-Delhi** under the guidance of Prof. Shankar Prakriya, Department of Electrical Engineering IIT Delhi, for the period of 08th June -03rd August 2020
3. Got Certificate of Appreciation from **DST &Texas Instruments** for fostering an ecosystem bridging government, Industry and Academia during INDIA Innovation Challenge Design Contest 2018 Anchored by NSRCEL @IIMB
4. FDP's Attended: **27**
5. Coursera certifications: **8**
6. NPTEL certifications: **7**
7. Workshops organized: **3**
8. Guest lectures delivered : **4**
9. Skills
    - **4G, LTE, LTE-A**
    - **5G NR, 5G Radio, 5G Core**
    - **Channel Coding and Decoding (LDPC & Polar)**
    - **C, MATLAB, Python**

R. Chandra Sekhar