

Name of Faculty Dr.Vinodh Kumar Minchula
 Designation Associate Professor
 Nature of Job/Appointment Contract
 Date of Joining 16-02-2021
 E-mail vinodhkumarm_ece@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph.D.	Doctor of Philosophy (ECE) Andhra University	Awarded (Full Time- UGC NRF)
PG	M.Tech (Communication Engineering) VIT University	Distinction (University 3 rd Rank)
UG	B.E (ECE) Anna University	First
Other	Diploma in Japanese Language (Foreign Language)	Distinction

Work Experience

Teaching	9 Years
Research	2yr 9m (UGC JRF & SRF)
Industry	--
Others	--

Area of Specialization Wireless Communications and Signal processing

Academic Identity
 Vidwan-ID: 179272 Scopus Id: 57201457305
 Researcher Id: N-6946-2017 Orcid Id: 0000-0002-9042-6413

Professional Memberships

- Fellow Member of **IETE** (F-502564), **INDIA**
- Member of **IEEE** (M- 93979993), **USA**
- Life Member of **Sakura Science Club** (SSP ID : 17104180), **Japan Science & Technology, Japan**
- Permanent Member of **Institution of Engineers, INDIA**
- Member of **IEEE** Communication Society, **USA**
- Member of **IEEE** Information Theory Society, **USA**
- Member of **IEEE** Signal Processing Society, **USA**
- Member of **IAENG**(International Association of Engineers)

Responsibilities held at Institution Level

- Industrial academic **SPOC** for **TCS Tech. Business Unit** in conducting TCS industrial telecom projects to TCS selects from four major departments (ECE, CSE, EEE, IT) for the year 2014-15 & 2015-16 at MVGR College of Engg.(A).
- Central level **Training & Placement** Coordinator for 8.5 years at MVGR College of Engg.(A)
- Nominated as **Vice President** for Toyama Sakura Club of Andhra University Jointly formed by Toyama prefecture, Japan & Andhra University, Andhra Pradesh, INDIA.

Responsibilities held at Department Level
 Research Guidance

- Member, Course Expert Group

- Received "**International Fellowship in Japan**"-Asia youth exchange program in science under Sakura Science program sponsored by Japan Science and Technology, Japan in year 2017-18.
- Received "**UGC-National Research Fellowship**" for 5 years under UGC-NFOBC, Govt. of INDIA in the year 2016-17.
- Received "**Medal of Honor**" for PhD in 5G Communications from Andhra University presented by correspondent MANSAS, principal MVGR college of Engineering (A) in 2019.
- Received "**University rank 3rd**" for Academic Excellence in M.Tech with a GPA of 9.04 from VIT University Vellore in year 2009.
- Received "**Merit Scholarship**" in M.Tech 1st year for GPA of 9.19 VIT University Vellore in year 2008.

Awards Received

Courses Handled at Under Graduate / Post Graduate Level.

Mobile Cellular Communication, Satellite Communication, Optical Communication, Digital Data Communications, Radar Systems, Analog Communications, Digital Communications, Computer networks, Telecommunication switching systems and networks, Professional Ethics and Human values, Analog Communication Lab, Digital Communication lab, Communication and Signal processing lab Microwave and Optical

communication lab.

No. of Papers Published	National Journals – --	International Journals – 10
Projects Carried out	National Conference – 02	International Conference –06
Patents		----
Technology Transfer		----
Invited Speaker	i. A Technical session for 40 Indian Navy personnel under AU-Defense R&D program to Naval HQ Wireless Equipment unit, Visakhapatnam in 2019. ii. A Lecture on “Laser properties & limitation with longitudinal and transverse modes experimental demonstration” on 02-04-2019 organized by MRPG college, Vizianagaram. iii. Reviewer & Technical Program Committee (Associate Editor) of International Journal of Electrical and Computer Engineering (Scopus Journal)-2021 iv. Reviewer of Elsevier ICT express, PIER.Journal, IEI: Series B journal	
No. of Books/Chapter Published with details		----
	1. One Week National Level Online STTP IV on “ AI-MIMO Millimeter (mm) Wave And Massive MIMO Applications For 5G Wireless Networks Using AI”, 26 th Apr-1 st May 2021 organized by GRIET, Hyderabad. 2. One Week National Level Online STTP III on "Trends and Challenges in Design and Implementation of Reconfigurable Antennas for Increased Spectrum Access in Cognitive Radio Communication", 14-19th Sep 2020 organized by VR SIDDHARTHA ENGINEERING COLLEGE, Vijayawada, AP. 3. One Week AICTE Training And Learning (ATAL) Academy Online FDP on "Design thinking", 7-11 th Sep 2020 organized by College of Engineering Trivandrum . 4. Two-week Online Faculty Development Programme on “Demystifying 5G RF ASICs”, 24 th Aug to 4 th Sep 2020 organized by Electronics and ICT Academies, Indian Institute of Technology Guwahati. 5. AICTE Sponsored One Week Online Short Term Training Program(STTP-II) On “Electromagnetics, Microwave, RF & Antenna Design Using Ansys HFSS”, 24-29 th Aug 2020 organized by Shri Vishnu Engineering college for women,Bhimavaram. 6. One week AICTE-MHRD sponsored online STTP phase II on "Design of Miniature Antenna for 5G and IoT Applications", 10-15 th Aug 2020 organized by MVGRCE, Vizianagaram. 7. AICTE Sponsored One Week Online Short Term Training Program(STTP-I) On Trends and Challenges in Design and Implementation of Reconfigurable Antennas for Increased Spectrum Access in Cognitive Radio Communication”, 20-25 th Jul 2020 organized by VR SIDDHARTHA ENGINEERING COLLEGE, VIJAYAWADA, AP. 8. Five day online STC on “Antenna Design Techniques and software Simulations using HFSS”, 13-17 th Jul 2020 organized by ECE NITTTR, Chandigarh. 9. One month Online Industrial Internship on RF & Antenna Design Using ANSYS HFSS, 22 nd Jun–14 th Jul 2020 organized by Entuple technologies in association with ANSYS, IEEE Bangalore section, MTTS. 10. Five day online AICTE-MHRD sponsored online STTP Phase I on "Design and Simulation of Miniature Antenna for IOT Applications", 29 th Jun- 4 th Jul 2020 organized by MVGRCE, Vizianagaram. 11. Three day online FDP on RF Design/VNA & Its Applications, 16-18 th Jun 2020 organized by Entuple & Anritsu 12. Web of Science Journal Citation Reports South Asia Training & Certification Program 2020, 5 th ,12 th ,25 th & 27 th May 2020 organized by Web of Science- Clarivate Analytics company 13. Five day online FDP on Design Thinking, 01-05 th Jun 2020 organized by MITS School of Business, Madanapalle. 14. One week AICTE-MHRD sponsored online FDP on Evaluation & Setting of Question Papers 25-29 th May 2020 organized by NITTTR, Chandigarh. 15. Five day online FDP on Technological Interventions Using Wireless communication, 18-22 th May 2020 organized by NITTTR, Chandigarh. 16. One week online FDP on “OUTCOME BASED EDUCATION: A STEP	

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (**Attended and/or Organized**).

TOWARDS EXCELLENCE” under Margdarshan Scheme of AICTE, New Delhi during 11-15th May 2020 organized by Government College of Engineering, Karad.

17. One week National FDP training on Latex, 27th Apr to 2nd May 2020 organized by Spoken tutorials Project IIT Bombay, Sanjay Ghodawat University.
18. One week short course on Massive MIMO Cooperative Communication and Cognitive Radio for 5G, 6-11th Jan 2020 organized by Department of Electrical Engineering, IIT Kanpur in association with ECE department Andhra University.
19. Participated in IEEE workshop on Channel Coding in 5G, 24th & 25th Aug 2019 organized by IEEE Hyderabad section at MVGRCE.
20. One week Electronics and ICT Academy FDP on ARTIFICIAL NEURAL NETWORKS AND DEEP LEARNING, 3-8th Jun 2019 organized by E&ICT Academy, NIT Warangal at MVGRCE.
21. Short course on MU-MIMO, Massive MIMO and OFDM Technologies for 5G Networks, 27-30th Mar 2019 organized by Department of Electrical Engineering, IIT Kanpur.

Details of Journal Publications/ Conferences

1. Vinodh Kumar Minchula, G. SasibhushanaRao, “SVD-based IWFA for next generation wireless MIMO communication”, Elsevier Information & Communication Technology (ICT) Express, ISSN 2405-9595, Vol. 4, Issue 3, pp. 171-174, 2018. (SCIE, KOREA CITATION INDEX, DOAJ&UGC Approved)
2. Vinodh Kumar Minchula, G. SasibhushanaRao, “Multi-Antenna system Performance under ICSIT and ICSIR channel conditions”, Springer Advances in Intelligent Systems and Computing, ISSN: 2194-5357, Vol. 695, pp. 505-511, 2018.
3. Vinodh Kumar Minchula, G. SasibhushanaRao, “Investigation of Optimal Cyclic Prefix length for 4G fading channel”, Springer Advances in Intelligent Systems and Computing, ISSN: 2194-5357, Vol. 695, pp. 429-435, 2018.
4. Vinodh Kumar Minchula, G. Sasibhushana Rao, “SAC channel effects on MIMO wireless system Capacity”, Springer Microelectronics, Electromagnetics and Telecommunications, ISSN: 1876-1100, Vol. 521, pp 759-765, 2018.
5. Vinodh Kumar Minchula, G. Sasibhushana Rao, “Carrier Frequency Offset impact on LTE-OFDM systems”, Springer Microelectronics, Electromagnetics and Telecommunications, ISSN: 1876-1100, Vol. 521, pp 401-408, 2018.
6. Minchula Vinodh Kumar, Yalaganda Merlin, “High-Performance of Domino Logic Circuit for Wide Fan-In Gates Using Mentor Graphics Tools” Published in IOSR Journal of VLSI and Signal Processing, Volume 5, Issue 6, e-ISSN: 2319 – 4200, p-ISSN No. : 2319 – 4197, Nov-Dec 2015
7. M. Vinodh Kumar, Md. Rameez, “Pipelined processor with reduced hardware overhead” Published in International Journal of Electronics & Communication Technology (IJECT), Volume 5, Issue 4, ISSN (Online): 2230–7109, ISSN (Print): 2230–9543, Dec 2014
8. M. Vinodh Kumar, Giddi Srinivasarao, “Leakage power reduction in cmos circuits using leakage controlled pmos technique in nano scale” Published in International Journal of Electronics & Communication Technology (IJECT), Volume 4, Issue 3, ISSN (Online): 2230–7109, ISSN (Print): 2230–9543, 2013
9. M. Vinodh Kumar, K. Pruthvi Raj, Md. Amina Tabassum, “Design and fabrication of Meander line Antennas for WLAN and Dual Band Applications” Published in International Journal of Electronics Communication and Computer Engineering (IJECCE), Volume 4, Issue 3, ISSN (Online): 2249–071X, ISSN (Print): 2278–4209, 2013
10. M. Vinodh Kumar, Ch. Suryanarayana, “An Implementation of Open Core Protocol for the On-Chip Bus” Published in International Journal of Computer Science and Information Technologies (IJCSIT), Vol. 3 (3), 2012, 4275 – 4278 May-June 2012

International Conference Publications

1. Vinodh Kumar Minchula, G. SasibhushanaRao, “Novel Schemes for minimizing PAPR in LTE-OFDM System”, IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering, School of Electrical Engineering, KIIT- Bhubaneswar, July 27th & 28th 2018.
2. Vinodh Kumar Minchula, G. SasibhushanaRao, “Multi Antenna correlation effects on Closed form MIMO system

capacity”, International Conference on Recent Trends in Engineering, Science and Technology , Visakhapatnam, Feb 20th & 21st 2018.

3. Vinodh Kumar Minchula, G. SasibhushanaRao, “Performance Analysis of LTE Systems in T-F Dispersive Channels”, pp. 296-302, International Conference on Recent Trends in Engineering, Science and Technology (ICRTEST-2016), ElsevierMaterials Today: Proceedings, Hyderabad, 25th-27th October 2016.

4. Vinodh Kumar Minchula, G. SasibhushanaRao, “Improved Clipping and Filtering based PAPR Reduction Techniques in LTE”, pp. 290-295, International Conference on Recent Trends in Engineering, Science and Technology (ICRTEST-2016), Elsevier Materials Today: Proceedings, Hyderabad, 25th-27th October 2016
5. Minchula Vinodh Kumar, M Satyanarana ,“Design of Coplanar Wave Fed Flared Monopole Antenna for Wireless Applications “ 8th International Conference on Microwaves, Antenna, Propagation & Remote Sensing (ICMARS 2012) 11-15th December 2012, Jodhpur INDIA
6. PNRL ChandraSekhar, P SuryaPrasad, M Vinodh Kumar, D Hari Hara Santosh “Image Retrieval with Rotation Invariance” published in IEEE 2011 3rd International Conference on Electronics Computer Technologies (ICECT 2011), April 8-10 2011 Kanyakumari, India.

National Conference Publications

1. Minchula Vinodh Kumar ,“BER Analysis and Peak to Average Power Ratio of OFDM Using QPSK and 16-QAM Digital Modulation Techniques” Published in National Conference on Advances in Communication, Navigation and Computer Networks (ACNCN-2012) AU College Of Engineering, March 17-18 2012
2. Vinodh Kumar Minchula , “Implementation of Twin Precision Technique for Multiplication” Published in AICTE & DRDO Sponsored 3-Day National Conference on Signal Processing and Embedded Systems Applications (SPESA-2011), July 8-10th 2011 Hyderabad, India.

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