



Name of Faculty Dr. A. VANI
 Designation Associate Professor
 Nature of Job/Appointment Assistant Professor-Regular, Associate Profess
 Contract from 01-11-2012
 Date of Joining 05 – 11 - 2007
 E-mail avani_ece@cbit.ac.in

Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (ECE)	Awarded
PG	M. Tech. (DSCE)	First
UG	B. E. (ECE)	Second

Work Experience	Duration
Teaching	20 Years
Research	06 years
Industry	--
Others	---

Area of Specialization Computer Networks, wireless Networks, Wireless Communication.

Professional Memberships IEEE, Membership No: 93843820

Responsibilities held at Institution Level
 1.Member in NAAC
 2.Faculty Co-ordinator for Chaitanya Spandana Club under the wings of ChaitanyaSeva (The Social Service club) from 24.07.2019 to till date.

Responsibilities held at Department Level
 1. Member in BoS
 2. Incharge for Best Projects and Get Funded Projects
 3. In charge for Student Attendance registers for UG and PG Programmes from January 2019 to till date.
 4. Lab In-charge (Comm.Engg) both for UG and PG from 2009 to till date
 5. In-charge for Establishment of Wireless and Mobile Communication Lab for ME- Communication Engg for 2019-2020.
 6. Coordinator for In-house projects (UG and PG) from February 2020 to till date.
 7. Coordinator for ME (Communication Engg) from August 2017 to August 2019.
 8. Member in Course Expert Group.
 9. NBA Co-ordinator (UG) from 2015 to 2019.
 10. Coordinator for WIE: Women in Engineering (IEEE student chapter in CBIT) from 2016 to till date.
 11. Common Course Co-ordinator for the Subject Elements of ECEfor BE(CBCS), I Sem and II sem from 2016 to 2017.

Research Guidance Guiding one research scholar(Ph.D) on Wireless Communication at JNT University Aanatapur, Ananthapuramu, A.P.

Awards Received --

Courses Handled at Under Graduate / Post Graduate Level. Elements of ECE, Basic Electronics, Analog Communication, Digital Communications, Coding Theory and Techniques ,optical fiber Communication, Mobile Cellular Communication, Wireless Mobile Communication, Satellite Communication, Data Communication and Computer Networks, Computer Networks.

No. of Papers Published National Journals – International Journals – 24

National Conference – 01 International Conference – 07

Projects Carried out --

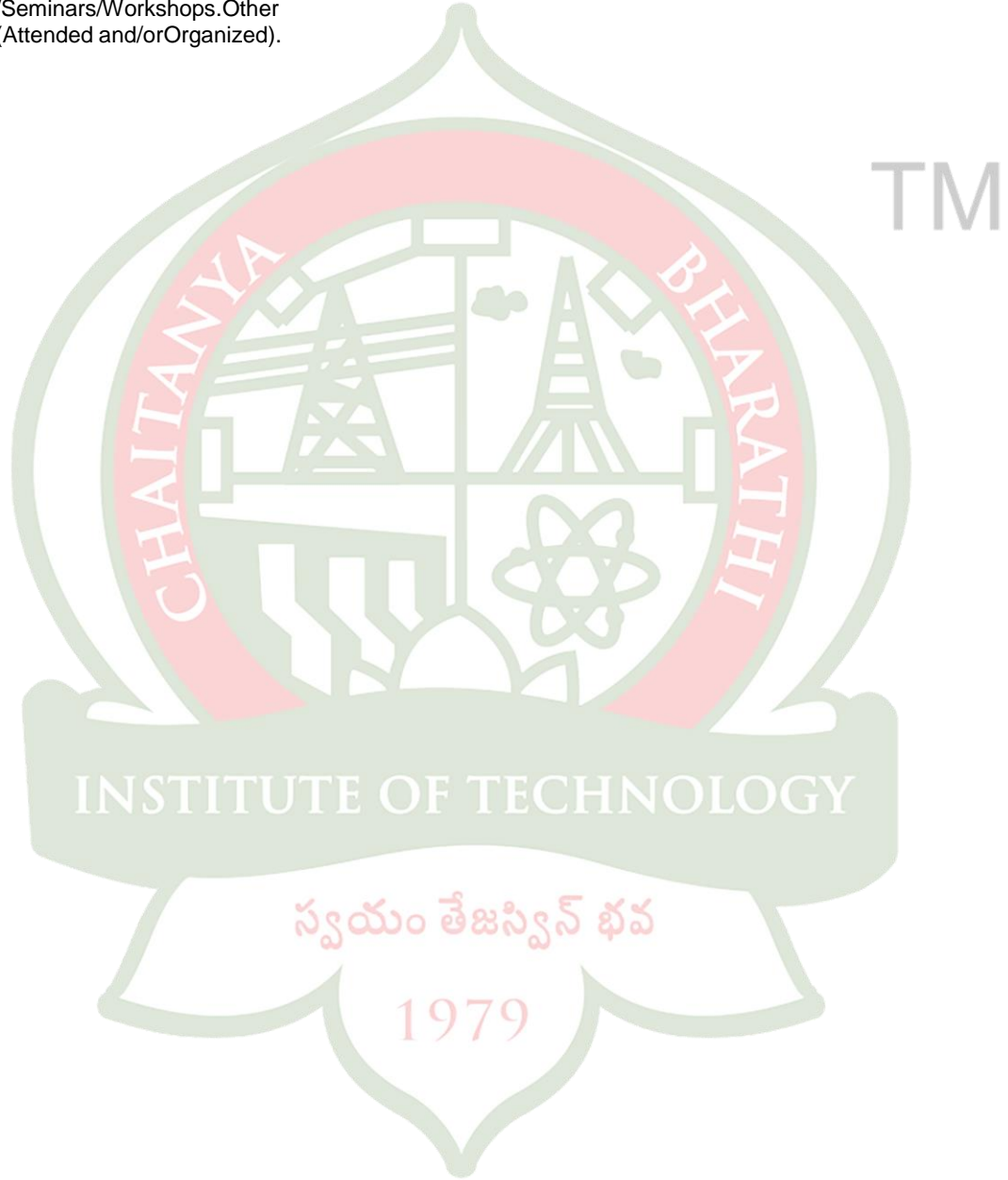
Patents --

Technology Transfer --

Invited Speaker --

No. of Books/Chapter Published with details --

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



1. Attended a one Week Online Faculty Development Program on Big Data Analytics for Electrical Applications organized by NITTTR Chandigarh 20-02-2023 to 24-02-2023.
2. Successfully completed the 5 day ATAL FDP on Women Entrepreneurship: Opportunities from Ideation to Implementation”organized by Entrepreneurship Development Institute of India. 25-10-2021 to 29-10-2021
3. Successfully completed the 5 day AICTE-STTP on Internet of Things (IoT) Machine Learning (ML)-Phase-II organized by Dept. Of ECE GPREC (A) Kurnool. 26-09-2021 to 1-10-2021.
4. Successfully completed the 5 day AICTE-STTP on Internet of Things (IoT)and Machine Learning(ML) organized by Dept. Of ECE GPREC (A) Kurnool. 26-09-2021 to 1-10-2021
5. Successfully completed the 5 day AICTE-STTP on Practical Exposure on Machine Learning and Data Science organized by Dept. Of ECE GPREC (A) Kurnool. 13-09-2021 to 18-09- 2021.
- 6.
7. Participated in AICTE Sponsored One Week Online STTP on “Recent Advances in Wireless Communications & Future Challenges” organized by Department of ECE, Vardhaman College of Engineering(Autonomous), Hyderabad in Association with AICTE from 13th - 18th July,2020
8. Successfully completed the 5 day online short term training program on " Internet of Things (IoT) & It's Applications in.Industry” jointly organized by the department of Instrumentation Engineering, Ramrao Adik institute of technology, Navi Mumbai and B&R Automation pvt. ltd. Pune from 8th- 12th June, 2020
9. Successfully completed online STTP on “Sensor, IoT & Machine Learning “from 1st June 2020 to 5th June 2020 conducted by, K. J. Somaiya College of Engineering, Vidyavihar, Mumbai.
10. Attended a short term online course on “Role of Artificial Intelligence in Electronics” sponsored by ISTE during 01st-05th June, 2020 held at Sathyabama Institute of Science and Technology, Chennai, India.
11. Successfully completed the online Short Term Training Program on “MATLAB based Teaching-Learning in Mathematics, Science& Engineering”. This STTP was organized by the Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai in collaboration with DesignTech Systems Pvt. Ltd., Mumbai during 18th to 22nd May 2020.
12. Successfully Completed STTP through ICT Mode on NBA Accreditation, 22.04.2019 to 26.04.2019[duration:1 Week]Sponsored by National institute of Technical Teachers training and Research, KOLKATA Organized by Chaitanya Bharathi Institute of Technology(CBIT).
13. Attended a one Week Online Faculty Development Program on CYBER SECURITY, organized by Department of MCA, CBIT (A) and Department of CSE, MGIT in association with Supraja Technologies 7th July to 12th July, 2020.
14. Attended a one Week Online Faculty Development Program on “Research Opportunities in Image Processing and Machine Learning”, conducted by the Department of Electronics and Communication Engineering during 29th June to 03rd July 2020.
15. Attended a one Week Online Faculty Development Program on “Data Science using R Programming” from 12-06-2020 to 17-06-2020 organized by department of IT in association with Webtek Labs.

16. Participated in a Two-Day online FDP on "Effective Technical Report Writing using LaTeX" organized by department of Electronics and Communication Engineering, MGIT, Hyderabad during 8th-9th June 2020.
17. Participated in One Week Online Faculty Development Program on "Outcome based Education and NBA Accreditation Process (UG) during 28-05-2020 to 01-06-2020, organized by Chaitanya Bharathi Institute of Technology, Hyderabad.
18. Participated in Five Day Online Faculty Development on CYBER-SECURITY from 23-05-2020 to 27-05-2020 organized by Department of Computer Science and Engineering, VIKAS College of Engineering and Technology, Vijayawada, A.P, in association with SUPRAJA Technologies
19. Attended one Week Online Faculty Development Program on 'PHP&MYSQL" from 18-05-2020 organized by department of Computer Science and Engineering, jagtial in association with Spoken Tutorial IIT-Bombay.
20. Participated in One Week Faculty Development Program on Online Teaching Etiquette and Best Practices from 10-05-2020 to 15-05-2020, Organized by Santhiram Engineering College, Nandyal in collaboration with Talentio Solutions India Pvt Ltd., Hyderabad
21. Attended one week Online Faculty Development Programme (FDP) on "Trends in Advanced Communications by Department of Electronics and Communication Engineering, Lakireddy BaliReddy College of Engineering, Mylavaram, Krishna (Dt) from 04th-09th May, 2020.
22. Successfully completed the NPTEL ONLINE Certification Course (FDP) "NBA Accreditation and Teaching-Learning in Engineering (NATE) "with a score of 93 %(Assignments) certificate awarded in January to April, 2020.
23. Successfully completed the NPTEL ONLINE Certification Course (FDP) "Computer Networks and Internet Protocols "with a score of 91 %(Assignments) certificate awarded in January to April, 2020.
24. Attended One-week Faculty Development Programme on " IoT for Emerging Applications" (04-08 Feb, 2020). An Initiative of Ministry of Electronics & Information Technology (MeitY), Government of India Electronics & ICT Academy IIT Guwahati, Assam, Organized in association with Chaitanya Bharathi Institute of Technology (A) Support from Finland Labs.
25. Successfully completed the NPTEL ONLINE Certification Course (FDP) on "Introduction to Internet of Things" and ELITE certificate awarded in July to November, 2019.

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26. Participated in Meity Government of India sponsored Faculty Development Programme on “Outcome Based Education(OBE)” organized by the E&ICT Academy, National Institute of Technology, Warangal at Vasavi College of Engineering(Autonomous),Hyderabad, from 1st May to 6th May 2017.Obtained a ‘A’ grade in the test.
27. Completed FIVE DAYS HANDS ON WORKSHOP ON “PATENT SEARCHING, DRAFTING AND FILING” (ONLINE MODE) from 29-05-2020 to 02-06-2020 In Association with Turnip Innovations and Exilyze Intellectual Services, IEEE COMPUTER SOCIETY & COMPUTER SOCIETY OF INDIA.
28. Participated in Online Workshop on “Social Responsibility and Community Engagement” conducted by Chaitanya Bharathi Institute of Technology and Scored 80% in the Quiz conducted on 17th June 2020.
29. Successfully completed a 5 Days Data Science Workshop, 10th June 2020 - 16th June 2020 from GreyAtom Edutech Pvt. Ltd.
30. Successfully completed the ‘Effective and Efficient Online Teaching in the Age of Corona, A Hands on Workshop ‘on 17th May 2020 and attended the interaction session and successfully completed both pre and post workshop online activities, involving 3 days of video lectures and hands-on work. This training was organized by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT), MHRD, Govt. of India.
31. Participated in One week Refresher Course on “BHARATEEYA CHAITANYAM” organized by the GEERVANA BHARATHI of CHAITANYA SAMSKRUTHI from 29-06-2020 to 05-07-2020.
32. Successfully Completed “Programming for Everybody (Getting Started with Python)” an online non-credit course authorized by University of Michigan and offered through Coursera on 03/06/2020.
33. Successfully Completed AI for Everyone an online non-credit course authorized by deeplearning.ai and offered by Stanford University through Coursera on 11/05/2020.
34. Successfully Completed Wireless Communications for Everybody an online non-credit course authorized by Yonsei University and offered through Coursera on 06/05/2020.
35. Successfully completed 100% of the self-paced training course “MATLAB Onramp” through MathsWorks Training Services.
36. Participated in the IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28th April to 22nd May 2020 during COVID-19 nationwide lockdown.
37. Participated in webinar on “Publishing Research Articles in Scopus Indexed Journals” conducted by CBIT - School of Management Studies on 24th June, 2020.
38. Participated in the webinar on “Computational Electromagnetic techniques for different RF Microwave and Millimeter-wave Application” held on 25.05.2020. GAYATRI VIDYA PARISHAD COLLEGE FOR DEGREE & P.G. COURSES (A), Visakhapatnam.
39. Participated in a one hour live webinar titled DIGITAL TRANSFORMATION, speaker: Mr.CRAIG HASEN, University of Applied Research & Development, 12th May 2020.
40. Successfully completed online Faculty Program on NBA on 5/12/2020, with a passing score of 100% organized by Bharati Vidyapeeth College Of Engineering, Navi Mumbai-400614.
41. Successfully completed the Faculty Awareness Program on “Outcome Based Education (OBE)” Organized by Institute Data Centre, KITS, Warangal on 20-06-2020 with a score of 75%.
42. Participated in Online Quiz Programme titled ACCREDITATION AND OUTCOME BASED LEARNING organized by IQAC, KGISL Institute of Technology, Coimbatore-641035, on 17th June 2020.
43. Successfully completed “National Level Quiz on IoT”, Organized by Department of Electronics and Communication Engineering, NRI Institute of Technology, NRIIT, on 9-6-2020 with a score of 95%.
44. Successfully completed National Level Quiz on NAAC on 6-6-2020, organized by Department of Computer Engineering, P.V.P.P. College of Engineering, Mumbai-22.

45. Successfully completed National Level Quiz on NBA on 6-6-2020, organized by the Department of Computer Engineering, P.V.P.P. College of Engineering, Mumbai-22.



International Journal

1. Deep Learning Based Channel Estimation for MIMO-OFDM System with Modified ResNet Model C Silpa^{1,2*}, A Vani³, K Rama Naidu⁴ Indian Journal Of Science And Technology <https://doi.org/10.17485/IJST/v16i2.2154>, Published By Indian Society for Education and Environment (iSee)
2. S Hemalatha, PR Kshirsagar, H.Manoharan, N Vasantha Gowri, A Vani Novel Link Establishment Communication Scheme against Selfish Attack Using Node Reward with Trust Level Evaluation Algorithm in MANET, Wireless Communications and Mobile Computing Volume 2022, Article ID 6776378, 9 pages <https://doi.org/10.1155/2022/6776378>
3. 1.M.Padmaja,2.S.Shitharth,3.K.Prasun a,4.Abhay Chaturedi,5.pravin R.kshirsagar,6.A.Vani, Grow Of Artificial Intelligence To Challenge Security In IoT Applications, <https://doi.org/10.1007/s11277-021-08725-4>
4. A.VANI, D.Rakesh "Implementation of Double Threshold Based Re-Sensing for Spectrum Energy Detection in Cognitive Radio" Journal of Engineering Science, Vol 11, Issue 5, May/ 2020, pp 340-345.
5. A.Vani, N. Yahdidya, I. Yaswanth sai, MD. Kareema Pasha, "Implementation of Accident Detection and Alert System for Emergency Medical Assistance using Mobile Application with MIT App Inventor", International Journal for Research in Applied Science & Engineering Technology (IJRASET) , Volume 8 Issue IV Apr 2020, pp 2173-2180.
6. A.Vani, Pranali Shanker Bargade "Improvement of BER for MIMO-OFDM System Using Wavelet Transform", International Journal of Innovative Technology and Exploring Engineering (IJTEE), Volume-8 Issue-8 June, 2019, pp 204-207.
7. A.Vani, Pranali Shanker Bargade, "Comparison of BER Performance with DFT and DWT for MIMO-OFDM System", Journal of Emerging Technologies and Innovative Research (JETIR), Volume 6, Issue 5, May 2019, pp 438-444.
8. A.VANI, "Literature Review on Existing Schemes on Basic Secure Routing Protocols in MANETs", International Journal for Research in Applied Science & Engineering Technology (IJRASET) Volume 5, Issue XI, November 2017, pp 1380-1385.
9. A.VANI, "Attacks and Exploits on the Existing Routing Protocols in a MANET", International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) Volume 6, Issue 10, October 2017, pp 1074-1077.
10. A.Vani, "Detection and Elimination of Wormhole Attacks in a MANET", International Journal of Scientific Research in Computer Sciences and Engineering IJSRCSE, Issue.5, October (2017), pp.35-40.
11. A.VANI, "An overview of Issues and challenges in MANET", International Journal of Engineering Technology and Computer Research (IJETCR), Volume: 04 Issue: 09 | Sep -2017, pp 69-73 .
12. A.VANI, "Study of Layering-Based Attacks in a Mobile Ad Hoc Network", International Research Journal of Engineering and Technology (IRJET), Volume: 04 Issue: 09 | Sep -2017, pp 1031

Conference Publications

1. C.Silpa, A.Vani, K.Rama Naidu "Implementation of MIMO-OFDM system with Deep Learning Based Channel Estimation and Channel Equalization" 2022 IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE). 30-31 December 2022. DOI: 979-8-3503-1156-3/22/\$31.00 ©2022 IEEE.
2. C.Silpa, A.Vani, K.Rama Naidu "Performance Analysis of Channel estimation techniques with different detection techniques for MIMO-OFDM systems" International Conference on Innovations in Engineering and Technology (ICIET-2022), 15-17 September 2022.
3. Vani¹ MohdNaved², AwabHabib Fakh³, A.Narasima Venkatesh⁴, P.Vijayakumar⁵, PravinRamdas Kshirsagar⁶, Supervise the Data Security and Performance in Cloud Using Artificial Intelligence, AIP Conf. Proc. 2393, 020094-1–020094-<https://doi.org/10.1063/5.0074225>, Recent Trends in Science and Engineering, Published by AIP Publishing. 978-0-7354-4198-9/\$30.00, 19 May 2022
4. MohdNaved, AwabHabibFakh, A NarasimaVenkatesh, A Vani, P Vijayakumar, PravinRamdasKshirsagar, Artificial intelligence based women security and safety measure system, AIP Conference Proceedings 2022, Volume-2393, Issue-1, PP- 020072, Cite as: AIP Conference Proceedings 2393, 020072 (2022); <https://doi.org/10.1063/5.0074211>, Recent Trends in Science and Engineering, Published by AIP Publishing. 978-0-7354-4198-9/\$30.00, 19 May 2022.
5. A NarasimaVenkatesh, A Vani, MohdNaved, AwabHabibFakh, PravinRamdasKshirsagar, P Vijayakumar, An approach for smart city applications using artificial intelligence. AIP Conference proceedings 2022, Volume-2393, Issue-1, PP-020068. AIP Conference Proceedings 2393, 020068 (2022); <https://doi.org/10.1063/5.0074166>, Recent Trends in Science and Engineering, Published by AIP Publishing. 978-0-7354-4198-9/\$30.00, 19 May 2022.
6. A.Vani, Security Issues in Mobile Ad Hoc Networks, ISBN:9789351072621, Proceedings of second International Conference on Emerging Research in computing, Information, Communication and Applications-ERCICA. Nitte Meenakshi Institute of Technology, Bangalore,

India. August, Elsevier Publications 2014.

7. A.Vani, D.Srinivasa Rao, Security attacks in Ad hoc Wireless Networks, National Conference on Signal Processing and Communication, Mallareddy College of Engineering and Technology, Hyderabad. December 4-5, 2009.
8. D.Srinivasa Rao, A.Vani, Security in Adhoc Wireless Networks, International conference on Network security and Workshop, Erode Sengunthar Engineering college, Erode, Tamilnadu, India, January 28-29, 2007.

