

Name of Faculty Dr. MOUNIKA JAMMULA
 Designation Assistant Professor
 Nature of Job/Appointment Regular
 Date of Joining 03 – 07 - 2013
 E-mail jmounika_ece@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy	Awarded
PG	M.E.	First with distinction
UG	B. Tech	First with distinction

Work Experience

Teaching	9.6 Years
Research	Nil
Industry	Nil
Others	Nil
Area of Specialization	Systems and Signal Processing
Professional Memberships	IETE Life Time Membership Member at IAENG
Responsibilities held at Institution Level	Co-Ordinator for AME, HD and CT. Departmental Coordinator for NAAC.
Responsibilities held at Department Level	Coordinator to conduct Remedial classes. In charge for EWN Lab.

Research Guidance --

Courses Handled at Under Graduate / Post Graduate Level. Analog Communication, Electronic Instrumentation, Elements of ECE, Digital Image Processing, Internet Of Things, Micro Controllers and Programmable DSPs, Sensors and Actuators, Universal Human Values

No. of Papers Published National Journals – Nil International Journals – 09
 National Conference – Nil International Conference – 02

Projects Carried out --

Patents --

Technology Transfer --

Invited Speaker (Few Important/Prominent) --

No. of Books/Chapter Published with details --

WEBINARS:

1. Attended one day webinar on " Embedded Technologies for Modern Radar Systems" on 2nd May 2021 organized by IETE, Hyderabad Center.
2. Attended one day webinar on " Introduction to Low Probability of Intercept Radars" on 30th May 2021 organized by IETE, Hyderabad Center.
3. Participated in National Webinar on New Education Policy 2020: Way Ahead and Research Funding organized by Department of Electronics and Communication Engineering of BIET, on 10-06-2021.
4. Participated in IETE knowledge sharing session(KSS-31): webinar-52 on "High voltage standards, protection and mitigation for

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

- Electronics System" organized by IETE, Hyderabad Center on 20-06-2021.
5. Successfully attended Leadership Talk with Mr. Shridhar Venkat, CEO (Akshay Patra Foundation) held on 20th Jun, 2021 by MHRD's Innovation Cell
 6. Successfully attended a Webinar on "Deep Learning for Automatic Speech Recognition" organized by Department of Electronics and Telecommunication
 7. Engineering, AISSMS Pune on 26th June 2021.
 8. Participated in the webinar on "Present Trends and Research scopes in 5G Wireless Communications" conducted by the Department of Electronics and Communication Engineering, GPREC, Kurnool on 27th and 28th June, 2020.
 9. Participated in webinar on "Innovation in Technology Adoption and Development of High Precision Slipring: A Case Study" organised by Department of Production Engineering and Institution of Engineers (India), Kolkata Students' Chapter, AISSMS COE, Pune in association with TRIZ Association of Asia on 18 July 2021.
 10. Participated in the IETE knowledge sharing session on "Mechatronics Approach : Basics to Advancement" organized by IETE, Hyderabad centre on 18th July 2021.
 11. Attended Webinar on "Keys to Manage Time & Stress" organized by Department of E&TC Engineering, AISSMS COE Pune on 24/08/2021.
 12. Participated in webinar on "Innovation in Technology Adoption and Development of High Precision Slipring: A Case Study" organised by Department of Production Engineering and Institution of Engineers (India), Kolkata Students' Chapter, AISSMS COE, Pune in association with TRIZ Association of Asia on 18 July 2021.
 13. Participated in the IETE Knowledge Sharing Session (KSS) – 91: Webinar - 123 on "Reverting Innovation Eco-System in India through Entrepreneurship" organized by IETE, Hyderabad Centre on 26th February 2023.

FDPs/STTPs:

1. Attended one week FDP 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 at CBIT Hyderabad.
2. Participated in one week FDP on "Future Nano Electronic Devices and Circuits" organized by Department of Electronics and Communication Engineering of MGIT from 6th July 2020 to 10 July 2020.
3. Participated in AICTE sponsored one week online Short Term Training Program (Ref. No. 34-66/304/FDC/STTP/Policy-1/2019-20) (Phase-I) on Practical Exposure on Machine Learning and Data Science organized by Department of Electronics and Communication Engineering, GPREC(A), Kurnool during 26th April to 01st May 2021.
4. Participated in One Week Faculty Development Program on "Augmented Reality & Virtual Reality" by Department of Electronics and Telecommunication Engineering in association with Buds Engineering Academy Pune, Under IEEE Students Branch, Institution of Engineers(India), Kolkata and ISTE, New Delhi from 21-25 June 2021.
5. Attended five day ATAL FDP on " Wireless Embedded Systems And Sensor Networks " from 01-06-2021 to 05-06-2021 organized by Department of Electronics and Communication Engineering, G H PATEL COLLEGE OF ENGINEERING & TECHNOLOGY, Gujarat.
6. Participated & Completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Information and Cyber Security" from 2021-6-14 to 2021-6-18 at IIIT Vadodara.
7. Participated in the technical training program on Android Application Development (Code E) conducted by IETE mumbai in association with Pantech e learning Electronics and Communication Engineering during 06-07-2020 10-07-2020.
8. Participated in International AI CONGRESS organized by the department of CSE during 25-26th June 2021 ORGANIZED BY CVR COLLEGE OF ENGINEERING.
9. Participated in One Week FDP organized by Department of Electronics and Telecommunication Engineering in association with Buds Engineering Academy Pune, Under IEEE Students

Branch, Institution of Engineers (India), Kolkata and ISTE, New Delhi from 21-25 June 2021.

10. Attended two day national online workshop on Python Programming Workshop on 16th & 17th of July 2021 organized by Department of MCA at Chaitanya Bharathi Institute of Technology (A), Hyderabad.
11. Attended Online Faculty Development Programme on "Computing Techniques for Emerging Applications" conducted by the Department of Computer Science and Engineering from 26-07-2021 to 30-07-2021.
12. Participated and successfully completed the 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 26 July, 2021 to 30 July, 2021.
13. Mounika Jammula, UHV Refresher 1 part 1, Organizer: An AICTE initiative on universal human values Date: 7th-11th Feb 2022
14. Mounika Jammula, Project Based Learning, AISSMS college of engineering, 21st to 25th Feb 2022
15. Completed 12 week NPTEL course on Cryptography and Network Security.
16. Completed 8 week NPTEL course on Introduction to Operations Research.
17. Completed 4 week course on Introduction to Internet of Things and Embedded Systems from an online course authorized by University of California, Irvine and offered through Coursera on 10-06-2021.
18. Participated and successfully completed the 5-day Face-to-Face UHV-II FDP organized by All India Council for Technical Education (AICTE) at Rajeev Gandhi Memorial College of Engineering and Technology Autonomous, Nandyal from 23rd August to 27th August 2022.

Details of Journal Publications/
Conferences (National and
International)
International Journal

1. Mohd Ziauddin Jahangir, J. Mounika, "Design and simulation of an innovative CMOS ternary 3 to 1 multiplexer and the design of ternary half adder using ternary 3 to 1 multiplexer", *Microelectronics Journal* 90 (2019) 82–87 (SCI).
2. J. Mounika, K. Ramanujam and M. Z. Jahangir, "CMOS based design and simulation of ternary full adder and Ternary coded Decimal (TCD) adder circuit," 2016 International Conference on Circuit, Power and Computing Technologies (ICCPCT), 2016, pp. 1-5, doi: 10.1109/ICCPCT.2016.7530153.
3. Mounika Jammula, "Analysis of Modified Reed Solomon Error Correcting Codes", *International Journal of Recent Scientific Research*, IJRSR, Vol. 9, Issue, 6(A), pp. 27225-27228, June, 2018.
4. Mounika Jammula, 2017 "Automatic Speech Recognition system for class room database management in Fixed – C Language", e-ISSN: 2278-2834, p-ISSN: 2278-8735. Volume 12, Issue 4, Ver. III (Jul.-Aug. 2017), PP 62-68.
5. Jammula, M., Vakamulla, V. M., & Kondoju, S. K. (2022). Hybrid lightweight cryptography with attribute-based encryption standard for secure and scalable IoT system. *Connection Science*, 34(1), 2431-2447 (SCI).
6. Jammula, M., Vakamulla, V., & Kondoju, S. (2022). Artificial intelligence framework-based ultra-lightweight communication protocol for prediction of attacks in Internet of Things environment. *Transactions on Emerging Telecommunications Technologies*, e4680 (SCI).
7. Jammula, Mounika, Accident Alert and Vehicle Tracking System using GPS and GSM (June 7, 2021). Available at SSRN: <https://ssrn.com/abstract=3982997>.
8. Jammula, Mounika. "An Artificial Intelligence Framework for Plant Leaf Disease Detection and Classification Using AMBF with GKFCM and GLCM." *Alinteri Journal of Agriculture Sciences* 36.1 (2021).
9. Jammula, Mounika. "Content based image retrieval system using integrated ML and DL-CNN." *Annals of the Romanian Society for Cell Biology* (2021): 9656-9666.
10. Jammula, Mounika, Venkata Mani Vakamulla, and Sai Krishna Kondoju. "Performance evaluation of lightweight cryptographic algorithms for heterogeneous IoT environment." *Journal of Interconnection Networks* 22.Supp01(2022):2141031.