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| Name of Faculty | Dr. V. Padmavathi | |
| Designation | Associate Professor | |
| Nature of Job/Appointment | Regular | |
| Date of Joining | 30-06-2022 | |
| E-mail | padmavathiv_cse@cbit.ac.in | |
| **Education Qualifications** | **Name of the Degree** | **Class** |
| Ph. D | Ph.D. (CSE) | **-** |
| PG | M. Tech. (CSE) | First class with Distinction |
| UG | B.E. (CSE) | First Class |
| Work Experience | | |
| Teaching | 20 Years | |
| Research | 12 Years | |
| Industry | - | |
| Others | - | |
| Area of Specialization | Cryptography, Information Security, Quantum Cryptography, Machine Learning, Algorithms, Software Engineering | |
| Professional Memberships | ACM, CRSI, IAENG | |
| Responsibilities held at Institution Level | Co-Convener for Sudhee and Shruthi -24- Publicity Committee, Member of Feedback committee | |
| Responsibilities held at Department Level | NIRF Coordinator, PAQIC Coordinator, Attendance Incharge, Class Incharge | |
| Research Guidance | - | |
| Courses Handled at Under Graduate / Post Graduate Level. | Cryptography and Information Security, Compiler Design, Operating Systems, Software Engineering, C, Data Structures, Computer Networks, OOAD, DAA, Parallel and Distributed Systems, Real Time Systems, Distributed Systems | |
| Patents | 1-Grant 3-Published | |
| Technology Transfer | 1 | |

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| Invited Speaker | 1. Invited as Guest Lecturer by VBIT, Hyderabad on 25th January 2024 to deliver a lecture on on "Certifying Security for E-Commerce Applications" .<br><br>2. Invited for Guest Talk on "Ensuring Secure Transactions over Web" by SNIST, Hyderabad on 27th January, 2023.<br><br>2. Invited as Guest speaker to deliver a talk on "Quantum Key Distribution", by Christ University, Bengaluru on 29th Jan, 2022.<br><br>3. Invited to deliver the Keynote speech at FSDM online Conference held during October 26th-29th, 2021, South Korea.<br><br>4. Speaker for the Five Day FDP on "Quantum Algorithms" organized by Anurag University, Hyderabad from 27th-30th September & 1st October, 2021.<br><br>5. Invited as a resource person for A Five Day STTP on "Recent Trends and Challenges in CSE" organized by Tirumala Engineering College, Narsaraopet, A.P. during 05th-07th July, 2021.<br><br>6. One of the speakers for AICTE sponsored Two-week FDP on "Quantum Computing", from 08th-20th Mar, 2021 at ACE College of Engineering, Hyderabad.<br><br>7. Speaker for the FDP on "Trends and Advances in Cryptography" organized by SNIST, Hyderabad from 24th-28th Aug, 2020. |
| Reviewer and Program committee member | 1. Program committee member for 11th International |

Conference on Data Mining and Database (DMDB 2024) January 20 ~ 21, 2024, Zurich, Switzerland.

2. Reviewer and Program committee member for 3rd International Conference on Cloud, Big Data and IoT (CBIoT 2022), July 23 - 24, 2022, Toronto, Canada.

3. Reviewer and Program committee member for International Conference on Artificial Intelligence Advances (AIAD 2022), August 27 - 28, 2022, Virtual Conference.

4. Program committee member for 3rd International Conference on Machine Learning Techniques and Data Science (MLDS 2022), November 26 ~ 27, 2022, London, United Kingdom.

5. Program committee member for 7th International Conference on Artificial Intelligence, Soft Computing And Applications (AISCA 2023), January 02 - 03, 2023, Zurich, Switzerland.

5. Program committee member for 12th International Conference on Cloud Computing: Services and Architecture (CLOUD 2023), March 18 - 19, 2023, Vienna, Austria.

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| No. of Books/Chapter Published with details | 1. "Introduction to Quantum Computing", Evolution and Applications of Quantum Computing, Scrivener publishing, Wiley Library, May 29, 2023.<br>2. "Machine Learning Application for Detecting Leaf Diseases with Image Processing Schemes", in Machine Learning Methods for Signal, Image and Speech Processing, River Publications, 2021. |
| Details of Short-Term Training Programs/Faculty Development Programs/Seminars/WorkshopsOther Trainings (**Organized**). | 1. "Unlocking Performance: A Journey into Parallel Computing" on 14th December, 2023.<br>2. "Coding Theory in Reliable and Secure Communication", 2nd December, 2022.<br>3. "Cyber Security", 20th-22nd October, 2021.<br>4. "Quantum Algorithms", 27th-30th Sep & 1st Oct, 2021.<br>5. "Foundations on Machine Learning", 14th-18th Dec, 2020.<br>6. "Trends and Advances in Cryptography", 24th- 28th , August, 2020. |
| Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/ Other Trainings (**Attended**). | 1. Research Advancements in Natural Language Processing" Organized by the Department of Artificial Intelligence and Machine Learning, Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad.<br>2. One week online FDP on "Quality Education through OBE" organized by Chaitanya Bharathi Institute of Technology(Autonomous), Hyderabad in association with IEEE Education Society Student Branch Chapter CBIT during 22nd - 27th January 2024.<br>3. Participated in the Hackathon on "Quantum Computing Using QSim" held in July 2023 organised by Centre For Development of Advanced Computing (C-DAC Hyderabad) in collaboration with IIT Roorkee with the support of Ministry of Electronics and Information Technology (MeitY), Government of India.<br>4. Participated in National Level One Week Faculty Development Programme on "Recent Trends in Data Science for Engineering" organized by Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana in association with CBIT IEEE-RAS student branch chapter from 26th June 2023 to 30th June 2023.<br>5. Successfully completed a one month course on "Quantum Computing using Indigenous Quantum Simulator QSim" jointly organized by IIT Roorkee and C-DAC Hyderabad with the support of the Ministry of Electronics and Information Technology,Government of India, May 2023.<br>6. "Machine Learning & IoT applications" conducted by CSE |

Dept., OU, Hyderabad in association with CCE, NIT Warangal from 31st March to 4th April, 2023.

7. "Network Security Analysis using Wireshark, Snort and SO", 5$^{th}$ – 9$^{th}$, December, 2023, SNIST, Hyderabad.
8. "Blockchain Technology and Advanced Cloud Developer Essentials", 25$^{th}$ – 29$^{th}$, July 2022, Reva University.
9. "Advanced Security Techniques for Next Generation Computing, 16$^{th}$-21$^{st}$, November, 2021, CMR Institute of Technology.
10. "Intelligent Systems for Sustainable Development", 8$^{th}$ -12$^{th}$ June, 2021, St. Peter's Engineering College.
11. "Quantum Computing", 5$^{th}$- 9$^{th}$ Oct, 2020, C-DAC, Mohali.
12. "Cyber Security", AICTE Training And Learning (ATAL) Academy, 21-25, Sep, 2020, Dr. Harisingh Gour University. "Quantum Computing", 24-29 Aug 2020, MNIT Jaipur.
13. "Cyber Security", 28th September - 4th October, 2020, SNIST.
14. "IPR and Innovation", 2nd July, 2020, DON Bosco Institute of Technology, Mumbai.
15. "Effective Technical Report Writing Using LaTex", 8th - 9th June, 2020, MGIT, Hyderabad.
16. "PHP & MySQL", 18th - 23rd May, 2020, JNTUH College of Engineering, Jagtial.
17. "IPR Awareness and Patent Prosecution", 6th - 10th May, 2020, CMR Engineering College, Hyderabad.
18. "Quantum Computing", Feb 13$^{th}$-14$^{th}$, 2020, Society for Electronic Transaction and Security (SETS), Chennai.
19. "Internet of Things - Architecture Applications and Research Challenges", 18th - 23rd November, 2019, SNIST.
20. "Data Science using R Programming", 22nd - 27th July, 2019, SNIST.

**International Journals / Conferences**

1. Underground Water Level Prediction in Remote Sensing Images using Improved Hydro Index Value with Ensemble Classifier", MDPI, Artificial Intelligence and Machine Learning for multi-source Remote Sensing, April 2023.
2. Prediction of Stock Market Using Trading Bot", International Journal for Innovative Engineering and Management Research, Elsevier-SSRN, 2023.
3. A Novel Approach for Gas Leakage Detection using GPS", Thirteenth International conference on Advances in computer Engineering (ACE - 2023), 26th – 27th May, 2023.
4. Gas Leakage Detection using IoT and Cloud Technology: A Review", 5th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED2023), 19th – 20th May, 2023.
5. IoT based Gas leakage detection using GPS", 5th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED2023), 19th – 20th May, 2023.
6. Securing Files Using Hybrid Cryptography", Turkish Online Journal of Qualitative Inquiry, December, 2021.
7. Secure Data Transfer using Cardan Grille Cipher", Design Engineering, November, 2021.
8. Quantum Devices and attacks on Quantum Systems", Science Technology and Development, August, 2020.
9. Traffic Sign Recognition Using Convolution Neural Networks", International Journal of Advanced Science and Technology, June, 2020.
10. Provably Secure Quantum Key Distribution By Applying Quantum Gate ", International Journal of Network Security (IJNS), January, 2018.
11. Significance of Key Distribution using Quantum Cryptography", International Journal of Innovative Computing Information and Control (IJICIC), February, 2018.
12. Introducing Quantum Cryptography Based Secured Encryption and Decryption Algorithms", International Journal of Security and Its Applications, August, 2017.
13. Quantum Cryptography and Quantum Key Distribution Protocols: A Survey", 2016 IEEE 6th International Conference on Advanced Computing.