



Name : Dr. V. Deepa
Designation : Assistant Professor
Department : Information Technology
Qualification : M.Sc., M.Phil., Ph.D.,
Experience : Teaching -11 Years 3 Months
Research : 4 Years
Area of Specialization(s): Computer Networks
Email(Official ID) : deepa@psgrkcw.ac.in

Academic Qualifications

| Examinations | Major | Year of Passing | Institution/Board | % |
|---------------|------------------|-----------------|---|------------|
| Ph.D | COMPUTER SCIENCE | Jan 2025 | PSGR Krishnammal College For Women | - |
| M.PHIL | COMPUTER SCIENCE | DEC 2009 | Bharathidasan University | 83% |
| M.SC | COMPUTER SCIENCE | 2001- 2003 | Sengamala Thayaar Educational Trust Women College | 85% |
| B.SC | COMPUTER SCIENCE | 1998- 2001 | Sengamala Thayaar Educational Trust Women College | 74% |

Additional Qualifications

| Certification | Area of Specialization | Institution/University/Agency Name | Year |
|----------------------|--|------------------------------------|------|
| Certification | Introduction to Python | Infosys Springboard | 2025 |
| Certification | Robotic Process Automation | Infosys Springboard | 2025 |
| Certification | IT Fundamentals for Cybersecurity | Coursera | 2022 |
| Certification | Introduction to IoT and Embedded Systems | Coursera | 2022 |
| Certification | Bio-Python | Spoken Tutorial | 2019 |

Research Publications Scopus(Indexed)

1. A Survey on Network Intrusion System Attacks Classification using Machine Learning Techniques, in 1st International Conference on Computational Research and Data Analytics (ICCRDA 2020), Rajpura, India, Oct. 24, 2020, organized by Suleyman Demirel University and Isparta Applied Sciences

- University Turkey, published in IOP Conference Series: Materials Science and Engineering, vol. 1022. (SCOPUS)
2. Integrated Framework for Intrusion Detection through Adversarial Sampling and Enhanced Deep Correlated Hierarchical Network, in International Information and Engineering Technology Association, vol. 36, issue 4, pp. 597-605. (SCOPUS)
 3. An Efficient Network Intrusion Detection System Model for Preventing Black hole attacks and Forging Attacks in MANETs, in Indian Journal of Natural Sciences, vol. 13, issue 75, pp.5092-5097.(WEB of SCIENCE)
 4. Securing Networks: Advancement in Intrusion Detection, AODMV, Cluster-based Routing using Machine Learning Techniques, Decision Making. Application in Management and Engineering. , vol. 7, issue 1, pp.566-577. (SCOPUS)
 5. A Novel Network Intrusion system for preventing Flooding attacks, Packet dropping attacks in MANETs using Deep Learning Algorithm. In 5th International Conference on Advances. in Information Communication Technology & Computing AICTC-2024, LNNS Series, organized by Hari krishan Research and Development Nexus.(SCOPUS)
 6. Implementing Network Intrusion Detection model by using Ad-hoc On-demand Multipath Distance Vector (AODMV) and Cluster Based Routing Protocol”, Journal of Basic Science and Engineering, Vol 21, Issue 1, pp. 1265-1277. (SCOPUS)
 7. Improving Accuracy of Rule Based Collaborative Intrusion Detection System – Security and Performance Tradeoff in MANET”, in International Journal of Intelligent Engineering and System. (SCOPUS)

Paper Publications-Others

7. A Survey: Web Mining, Web Log, Pattern Discovery article Journal of Emerging Technologies and Innovative Research (JETIR)., Volume 6, Year 2019, Pages 196
8. A QUALITATIVE SURVEY OF RECENT ADVANCES IN ARTIFICIAL INTELLIGENCE, conference proceedings Journal of Data Mining and Management, Volume vol 8 issue 3, Year 2023, Pages 33-37
9. Transforming Production Ensuring Safety and Quality, Conference proceedings Conference Proceeding- ICRTCSDA 24, Year 2023

Book Chapter Published

1. An Efficient network Intrusion Detection System for MANET using Deep learning Algorithms titled chapter published in RITESI 4. Souvenir Book organized by REva University Bangalore.
2. Software Testing with Selenium Automated Testing Tool, Mrs.S.Ponmalar & Mrs. V.Deepa book Amazon Kindle, Volume 1, Year 2020, Pages 100

Acted as a Resource Person

Acted as a resource person for the FDP on “Generative Ai for Future: Disruptive Technologies and Strategic integration “in Teerthanker Mahaveer University Sethu held on 21.7.2025

Reviewer in journal

Journal of SuperComputing

Paper Presentations in Conference

- 1 *Secure data transmission in Vehicular Ad hoc Networks (VANETS) through the Reputation Mixture Transition Circulation Algorithm*, 11th International Conference on Smart Computing and Communications (ICSCC 2025), Muthoot Institute of Technology and Science, Kochi, Kerala, July 3 – 5, 2025
- 2 *A survey of Network security Challenges in Ad-Hoc* International Conference on Recent Trends in Computational Technologies and Sustainable Development Goals (ICRTCTS-2025), PSG College of Arts and Science, 25th March 2025
- 3 *Domain Name System deployment with BIND command*, International Conference on Innovations in Cybersecurity and Data Science, ICICDS-2024 Reva University, Bengaluru on 15-16, March 2024
- 4 *An Efficient network Intrusion Detection System for MANET using Deep learning Algorithms*, in International Conference on Recent Interdisciplinary Trends in Engineering & Science for Industry 4.0 held at Reva University Bangalore on 26th March 2025.
- 5 *Empowering Tamil through AI powered translation tools*, in 6th International Conference –Tamil AI held in PSGR Krishnammal College of Women on 29th August 2025.
- 6 *Internet of things (iot) based smart drainage and sewage monitoring system* in 1st National Level Conference on "Advancing Intelligence Using Quantum for Boundless Innovators in Technolgy (NCAIQUBIT-) held on th March , organized by the Department of Artificial Intelligence and Data Science, Faculty of Engineering,
- 5 *Robotics in the field Industry Transforming Production Ensuring safety and Quality* in 2nd International Conferences on Recent Trenda in Computer Science and Data Analytics-2024 at KPR College of Arts and Science held on Feb 02 2024.

Membership in Professional Bodies

| Name of the Professional Body | Duration |
|---|-----------|
| IAENG(International Association of Engineers) | Life Time |

Awards/Honors

| Awards/Honors | Agency/Institute | Year of Award |
|---|--------------------------|---------------|
| University Rank Holder in M.Sc Computer Science | Bharathidasan University | 2003 |

Participation in Faculty Development Programme

1. Five days training on “Faculty Enhancement Programme” by KCW Teaching Learning Centre on 5-6-23 to 10-6-23.
2. FDP on “Data Acquisition with Python”, PSGRKCW, from 4.1.24 to 5.1.24

3. 7 days Online International Faculty Development Program on "Latest Trend and Techniques in Software Engineering: An Industry Perspective", CHRIST (Deemed to be University), Bangalore from 20/1/2024 to 27/1/2024
4. FDP -Consortium of Higher Educational Institutions for Research and Development (CHIRD) Tech-Driven Research: Leveraging AI, IoT and Collaboration for Academic Excellence, PSGRKCW (online) from 2.9.2024-7.9.2024
5. Recent Advancements in AI and IOT-Industry Perspective, Periyar Maniammai Institute of Science & Technology, 25.11.24- 30.11.24
6. Unity AR / VR, PSGRKCW, 21.11.2024 & 22.11.2024
7. Exploring Entrepreneurial Opportunities: AI & IoT in Industry 4.0, PSGCAS (Online), 3.2.2025 - 7.2.2025
8. 5 Days National Level FDP on Innovative Trends in Artificial Intelligence for Teaching and Research, PSGRKCW, 27.1.2025-31.1.2025
9. IoT and Edge Intelligence, PSGRKCW, 18.2.2025 & 19.2.2025
10. Empowering Educators: Strengthening Cybersecurity Awareness, Defence & Research, PSGCAS, 24/02/2025 to 28/02/2025
11. Strategies and Techniques to Enhance Teaching, Learning Process Nagarajuna Degree College on 7/4/25 to 11/4/25

Contributions

- Developed e-Content for Software Engineering
- Conference Co-ordinator in National Conference on Cybersecurity & Digital Forensics, PSGRKCW, 2022
- Department BOS member.
- Mentoring students to get certificate course on Robotic Process Automation under Honeywell Student Empowerment Program.