

**Name : Dr. B. Leelavathi**  
**Designation:** Associate Professor  
**Department:** Computer Technology



**Qualification:** MCA., M.Phil., Ph.D.,

**Experience :** Teaching: 14 Years                      Industry: 1 Year                      Research: 8 Years

**Area of Specialization(s) :** Advanced Networking

**Email (Official ID) :** [leelavathi@dmngpasc.ac.in](mailto:leelavathi@dmngpasc.ac.in),

### Academic Qualifications

| Degree  | Branch                | Institution/University Name                       | Year of Graduation |
|---------|-----------------------|---|--------------------|
| Ph.D.   | Computer Science      | Bharathiar University, Coimbatore                 | 2019               |
| M.Phil. | Computer Science      | D.J.Academy for Managerial Excellence, Coimbatore | 2012               |
| MCA     | Computer Applications | Madurai Kamaraj University, Madurai               | 2007               |
| B.Sc.   | Computer Science      | Nirmala College for Women, Coimbatore             | 1996               |

### Additional Qualifications

| Diploma/Vocational/Certification | Area of Specialization | Institution /University/Agency Name  | Year |
|----------------------------------|------------------------|--------------------------------------|------|
| HDSE                             | Computer Science       | APTECH                               | 1998 |
| PGDCA                            | Computer Science       | Bharathiar University                | 2000 |
| DST                              | Computer Science       | Indian Institute of Software Testing | 2008 |

### Research Guidance

| Programme | No. of Scholars |          |
|-----------|-----------------|----------|
|           | Completed       | Pursuing |
| M.Phil.   | 2               | -        |

### Research Publications (Indexed)

#### International

● B. Leelavathi and M. Rajesh Babu “A recent research study on various types of DDoS attacks, its classifications, detection tools, defense mechanisms and challenges in networks”, International Journal of Applied Engineering Research, vol. 10, No. 20-2015 ISSN 0973-4562. (Indexed in SCOPUS)

● B. Leelavathi and M. Rajesh Babu “Detecting unknown computer worm using Improved ELM and Dempster-Shafer theory”, International Journal of Applied Engineering Research, vol. 10 No. 20-2015, ISSN 0973-4562. (Indexed in SCOPUS)

- B. Leelavathi and M. Rajesh Babu “**Anomaly based worm detection using Deterministic Finite Automata and Efficient Key Graph technique**”, International Journal of Pure and Applied Mathematics, vol. 117, No. 15-2017, pp: 1111-1119 ISSN 1314-3395. (Indexed in SCOPUS)
- B. Leelavathi, “**Payload based internet worm detection using Neural Network Classifier**”, International Journal of Computer Science Engineering (IJCSE 2017), Vol. 06. No. 04 Apr 2017 ISSN: 2319-7323.
- B. Leelavathi “**Survey of machine learning Algorithms in Intrusion Detection and Prevention System**” International Journal of Scientific Research and Review, Vol. 7, Issue 10, pp: 133-150, 2018 ISSN: 2279-543X,
- B. Leelavathi and M. Rajesh Babu “**An Efficient Worm Detection System using Multifeature analysis and classification techniques**”, Lecture Notes on Data Engineering and Communications Technologies, Springer, Vol 31, pp. 1054–1064, 2020. ISBN 978-3-030-24643-3. (Indexed in SCOPUS)
- Dr. B. Leelavathi “**A Recent Study on Topological Descriptors and Deep Learning Perspective in Malware Detection**”, International Journal on Multidisciplinary Educational Research, ISSN: 2277-7881; IMPACT FACTOR: 6.514 (2021); IC VALUE: 5.16; ISI VALUE: 2.286
- B. Leelavathi “**The Impact of Artificial Intelligence on the Health Care Industry and Its Tools**”, ANVESAK, ISSN: 0378-4568-UGC Care Group 1 Journal- Vol. 51, No. 1 (IX) January– June 2021
- Dr. B. Leelavathi “**A recent study on bone mass index for males and females using a support vector machine classifier and its preventive measures**” Journal of Emerging technologies and innovative research, September 2022, www.jetir.org (ISSN-2349-5162)
- Dr. B. Leelavathi, “**survey on multimedia technologies using animated learning**”, Shanlax Publication, ISBN: 978-93-95422-25-3

### Other Publications: International/National Journals

- B. Leelavathi, “**Adaptive Firefly Algorithm based Feature Selection and Unsupervised Fuzzy Extreme Learning Machine (USUFELM) with Network-based Intrusion Detection and Prevention System**”, Journal of Computational Information System, ISSN: 1553-9105, pp: 34-44, Sep. 2018.
- Leelavathi. B “**A Study on Factors Influencing as a Best Practice for Image Classification**”, International Conference on Signals, Communication and Embedded Systems Global Technology Forum 2020.
- Leelavathi. B “**Analysis on Economic and Environmental impact of Global Warming and the role of AI in fighting climate change and its risk.**” Proceedings of International conference on Intelligent computing and Technology ICICT 2022 ISBN 978-93-91977-13-9
- Leelavathi. B “**A recent study on bone mass index for males and females using a support vector machine classifier and its preventive measures**”, Journal of Emerging technologies and innovative research, (ISSN : 2349-5162) September 2022
- Leelavathi. B “**Survey on multimedia technologies using animated learning**”, Shanlax Publication, October 2022

### Presentations in Conference

- B. Leelavathi and M. Rajesh Babu “**An Efficient Worm Detection System using Multifeature analysis and classification techniques**”, International Conference on Inventive Computation Technologies (ICICT 2017), IEEE Xplore Compliant, RVST Technical Campus, ISBN 978-1-5090-6697-1
- B. Leelavathi and M. Rajesh Babu “**A Research on challenges in Quality of Service**”, National Conference on Wireless Communication (CYSTROM’15), PSGR Krishnammal College for Women.
- B. Leelavathi and M. Rajesh Babu “**A Study on worm its types and detection methods**”, National Conference on Computer Communication and Information Technology (NCCCIT’16), Dr. N. G. P. Arts and Science College.

● B. Leelavathi, “A Survey on Malware Detection using Machine Learning Algorithms” National Conference on Emerging Trends in Mathematics with Computer Applications, Dr. N. G. P. Arts and Science College, Coimbatore, 12 & 13-Sep-19.

## **Participation in Conference National & International**

- Computer Communication and Information Technology, Dr. N. G. P. Arts and Science College, Coimbatore, 28-Sep-16.
- National Conference on Emerging Trends in Mathematics with Computer Applications, Dr. N. G. P. Arts and Science College, Coimbatore, 12 & 13-Sep-19.
- International Conference on Research Trends in Computing Technologies, Dr. N. G. P. Arts and Science College, Coimbatore, 28 & 29-Feb-20.  
National Level Seminar on “Joy of Orderly Living”, Kamdhenu Arts and Science College, 5-5-2020.
- Webinar on “How to be a Successful Instructional Designer in Learning”, PSG College of Arts and Science, 6th May 2020
- Webinar on “Gamification Tools in Teaching” organized by Internal Quality Assurance Cell, St. Xavier’s College for Women, Alva on 07-05-2020.
- International Webinar on Futuristic Information and Communication Technologies, CSI, 10th May 2020.
- Webinar Series on “TEACHING LEARNING TOOLS FOR THE DIGITAL ERA” organized by Sri Ramakrishna Arts and Science College, 11th May, 2020 to 16th May, 2020.
- Webinar on “Personal Effectiveness need of the hour”, Sakthi Institute of Information and Management”, May 14 2020.
- Webinar ‘Cloud Services – Sales force CRM & Applications Setup’, M. O. P. Vaishnav College for Women (Autonomous) Chennai on 14th May 2020.
- Online Super Session on Personal Financial Management expert session by ICT Academy conducted on 20 May 2020
- Webinar “Amazon Web service with Linux”, University of Kerala, 10th July 2020.
- Webinar on Reg Tech: The Way Forward, Indo Taiwan Joint Research Centre, June 17 2020
- National Level Webinar on “Creativity” jointly organized by Ek Bharat Shrestha Bharat (EBSB) Club, Government Arts College (Autonomous) Salem on 29-06-2020
- National Level Webinar on “Research Perspectives in Sociometric”, Bishop Cotton Academy of Professional Management on 03-07-2020.
- International Webinar on “BLENDED LEARNING” organized by Department of Commerce, JBAS College for Women on 14/08/2020.
- Webinar on “Object oriented Program through Java”, College of Engineering Pathanapuram, 16th August 2020.
- Online seminar on “Research & Innovation Driven, IPR & Patent Filing”, DR. T. Thimmaiah Institute of Technology, Karnataka, on 18-11-2020.
- International Webinar on “Blockchain Technology”, Wollo University, KIoT, Ethiopia on 7 May 2021.
- Webinar Series on “IT Tools and Applications”, SRM Trichy Arts and Science College, on May 24 to 27 May 2021.

## **Participation in Workshop**

- Workshop on NS2, D. J. Academy for Managerial Excellence, Oct-11.
- Science Academies Lecture Workshop on Internet of Things: A Research Perspective of science Smart Environment, Dr. GRD College of Science, 15 & 16-Apr-16.
- Online Java Programming, Spoken Tutorial, IIT Bombay, Jan 2020.
- National level Workshop on “Smart Research” 2020, Govt First Grade College Kanakapura, 7 to 9th May 2020.
- Two Day National Level Virtual Workshop on “RESEARCH AND RELATED TOOLS” organized by Centre for Research and Development, CMS College of Science and Commerce, Coimbatore on 16th & 17th April 2021.

- Two Days, State Level Online Workshop on “CSIR/UGC -NET/SET/PET Examination Preparation held on 23/08/2021 & 24/08/2021 organized by KSKW Arts, Science & Commerce College CIDCO, Nasik, Maharashtra.

## **Participation in Faculty Development Program**

- Faculty Development Program, D.J. Academy for Managerial Excellence, Sep-11.
- Introduction to R Programming, ICT Academy, 6 & 7-Dec-17.
- NAAC Revised Accreditation Framework and OBE Assessment Methodology, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-19 to 2-Jun-19.
- 2 Day Faculty Development Program on “Introduction to Cloud Computing, ICT Academy 24-1-2019 to 25-1-2019
- Three-Day Online Faculty Development Program on “Emotional Intelligence” organized by KG COLLEGE OF ARTS & SCIENCE, COIMBATORE on 28th, 30th April and 2nd May 2020.
- Online Faculty Development Program on “ICT to ICT”, Rover Engineering College, Chennai, 1 May 2020.
- National Level Faculty Development Program on LaTeX Poornima University, 4 May to 8 May 2020.
- Online Faculty Development Program on “Online Teaching Methods and Pedagogy”, MARG Regarious College of Arts and Science, 7 May 2020.
- Faculty Development Program on “Big Data Analytics For Business” Hindustan College of Arts and Science (AUTONOMOUS), 08 MAY 2020.
- Online Faculty Development Program on Examinations in wake of COVID-19, Patrician College, Chennai, 8th May 2020
- Faculty Development Program Digital Learning Series on the theme “Role of Artificial Intelligence in World Health Crisis”, Sri Ramakrishna Arts and Science on 18 May 2020
- Three Day Faculty Development Program on “Improving Your Research Visibility – Research Impact and Metrics”, V e l l a r College of Engineering and Technology, 11.5.2020 to 13.5.2020
- Three Day Faculty Development Program, Thavathiru Santhal inga adagial College of Arts and Science, 17.5.2021 to 19.5.2021.
- Seven days International Faculty Development Program on “Industrial Revolution 4.0: Emerging Trends In Information Technology” organized by School of Computer Science, PPG College of Arts and Science, held during 21.5.2021 to 28.5.2021.
- Seven days Faculty Development Program on “Research Methodology and Pedagogy for Territory Learning” organized by IQAC, Dr. NGP Arts and Science College held during 15.6.2021 to 21.6. 2021.
- Six Day Virtual Faculty Development Program on Recent Trends in Data Science & Big Data Analytics organized by Faculty of Computer Science, KG College of Arts and Science from 28.06.2021 to 03.07.2021.
- “National Seminar on Multi-disciplinary approach towards sustainable development” organized by PSG College of Arts and Science on 22/7/22
- Seven day Virtual National Level Faculty Development Program on “RESEARCH METHODOLOGY” organized by Department of Commerce, PPG College of Arts and Science, Coimbatore held during 12th December - 19th December, 2022.
- International Virtual FDP on “Personality Grooming - Handling Stress and Emotional Intelligence” organized by IQAC & Department of Commerce with Information Technology of PPG College of Arts and Science, Coimbatore, Tamandu from 02/01/2023 to 06/01/2023

## **Online Course**

- online course on “Network Security and Management”, Sri Krishna Adhithya College of Arts and Science on 2-5-2020
- Online Course “Deep Learning, AI”, Coursera, 9.5.2020.
- Online Course “Python 3.4.3”, IIT Bombay, May 2020.

- OnlineCourse“CloudComputingBasics”Courseonlinecourseon“NetworkSecurityandManagement”,Sri Krishna Adhithya College of Arts and Science on 2-5-2020
  - Online Course “Green Business Management”, Organised by CMS College of Science andCommerce,22.5.2020.
  - Online course “Fundamentals of Information Security” , Conducted by Infosys Springboard on 20/12/2022
- Online course “Introduction to Internet of Things ” , Conducted by Infosys Springboard on 2/1/2023

### **Invited Speaker/SessionChair/MemberOrganizingCommittee-Conference/Seminar/Workshop**

- **OrganizingMember**,EmergingTrendsInMathematicsgivingComputerApplications□ (ETMCA-19).Dr.N.G.P. Arts and ScienceCollege,Coimbatore, 12 &13-Sep-19.
- **Organizing Member**, International Conference on Recent Trends of ComputerTechnology(ICRTCT2020),Dr.N.G.P.Arts andScienceCollege,Coimbatore,28&29-Feb-20.
- **OrganizingSecretary, NationalWorkshoponBigData AnalyticsinClinicalResearch Dr.NGPCollegeofArts and Science,Coimbatore, 17-Nov-16, March 18 -19, 2021**
- **Resource Person**,Webinar on” RoleofInformationSysteminBusiness”,PPGCollege ofArtsandScience, Coimbatore, 04-2-2021
- **Resource Person**, Seminar on” Intellectual Property rights and IP Management for startup”,KG College of Arts and Science, Coimbatore, 27-4-2021

### **Membershipin ProfessionalBodies**

| <b>NameoftheProfessionalBody</b> | <b>Natureofmembership</b> | <b>Duration</b>  |
|----------------------------------|---------------------------|------------------|
| ComputerSocietyofIndia           | OneYear                   | June2020-May2021 |