Name   **:** Dr. R. KAVITHA

Designation   **:** Assistant Professor

Department   **:** Computer Science

Qualification **:** M.C.A., M.Phil., Ph.D.

Experience   **:** Teaching : 3.4 years   Research : 8 years

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

Email (Official ID)   **: kavitha.r@drngpasc.ac.in**

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	Government Arts College, (Autonomous), Coimbatore-18.	2023
M.Phil.	Computer Science	Government Arts College, (Autonomous), Coimbatore-18.	2017
MCA	Computer Applications	Government Arts College, (Autonomous), Coimbatore-18.	2013
BSC	Computer Science	Pioneer Arts & Science College, Coimbatore.	2010

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Certificate of Appreciation	Web Development	Hackathon 2015 "A sign on website for "Organ Donation"	2015
Online Certificate	Computer hardware & networking (NSQF–2)	MSME	2022

Online Certificate	Foundation of Cloud IoT Edge ML	NPTEL - AICTE With a consolidated score of 78% [Elite Plus Silver]	2023
Online Certificate	Python Programming With DJANGO Framework	One Week Internship Programme, Certificate No : MTINPD1001106	2024
Online Certificate	Exploring the Power of NODEMCU:IOT Development	One Week Internship Programme, Certificate No : MTINIOT24150	2024

Book Chapters

Title of the Book Publisher Year & Month	Publisher	Year & Month of Publication
IOT Playbook: Strategies for Success	Independently Published in Amazon	**January 2024**

Research Publications (Indexed)

International

- R.Kavitha , Dr.N.Balakumar, and , "**A Less Energy Efficient Key Management Protocol for WSNs"** International Journal of Advanced Research in Computer Science and Software Engineering, Vol.02, Issue 8, August 2014, Issn: 2277 128DX, Pp 360 - 361.

- R.Kavitha and S.Radha Priya, "**Clustering Based Effective and Ensures Data Dissemination in Wireless Sensor Network"** International Journal of Innovation Research in Science, Engineering and Technology, Vol.05, Issue 3, March 2016, Issn: 2319- 8759, Pp 3260 - 3266.

- R.Kavitha and Dr.P.Sumathi, "**A Survey on The Integration of Cloud Computing With Internet of Things: Research Issues, Challenges, Platforms And Applications For Smart**

Cities" International Journal Of Computer Engineering And Applications, Vol.12, No.7, July 2018, Issn: 2321-3469, Pp 22 -28. **[UGC]**

- R.Kavitha and Dr.P.Sumathi, " **IoT Based Garbage Methane Gas Detection System**", Issn(Online):2395 -1052, Isart – Volume 7 Issue 10 – October 2021, Pp 184-186.

- R.Kavitha and Dr.P.Sumathi, **"Efficient Smart City Garbage Collection Methodology Using Moth Flame Optimization",** Journal of Applied Science And Computations, Vol.5, No.8, August 2018, Issn No: 1076-5131**.[UGC]**

- R.Kavitha and Dr.P.Sumathi, **"Cloud-Based Smart Garbage Collection System Using IoT**", Indian Journal Of Natural Sciences, Vol.12/ Issue 69/ December/2021,Issn:0976-0997, Pp 1-9**. [Web Of Science].**

- R.Kavitha and Dr.P.Sumathi, **" Virtual Access: Virtual Authentication in Public Cloud For Secure Access Control",** Design Engineering, Issn:0011-9342 |Year 2021, Issue:8 | Pp: 16296-16309**.[Scopus].**

- R.Kavitha and Dr.P.Sumathi, **"Security Enhancement in Cloud Computing using Cipher Block Chain"**,Ijrar, November 2022 Volume.9, Issue.4, E- Issn : 2348 - 1269, P-Issn : 2349 - 5138.

- R.Kavitha and Dr.P.Sumathi, **"Optimal Route Generation for Garbage Collection using Modified Dijkstra Algorithm"**, Neuroquantology, Volume-20, November 2022, Doi: 10.14704/Nq.2022.20.15.Nq88500.**[Scopus]**.

- R.Kavitha and Dr.P.Sumathi , **"Darp: Delay Aware Routing Protocol or Garbage Vehicular Delay Tolerant Network"**, Irjmrs, November 2022, Volume :5, Issue :3, Issn: 2455 - 930X.
- R.Kavitha , **"An Enhanced Lung cancer Detection Using conventional Neural Network"**, Journal of Propulsion Technology, March 2023, Volume :44,No. 6, Issn: 1001-4055. **[scopus]**
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Presentations In Conference

- R.Kavitha, "**A Survey on Secure Data Transmission Protocols in Wireless Sensor Network"** National Conference on Innovative Trends in Information Technology, Feb 2016**,** KG College of Arts and Science, Coimbatore, 13-Feb-16.

- **Enhanced Multipath Routing Based Energy - Efficient Scheme in Mobile Ad Hoc Networks**: International Conference on Artificial Intelligence, Materials Science And Renewable Energy, Kit - Kalaignar karunanidhi Institute of Technology, Coimbatore - 641402, 27- May-22

Participation In Conference

International

- **DLA: Light Weight Deep Learning Module to Secure Authentication in Cloud Computing"**, Presented In The International Conference On Smart Technologies And Applications -2022 (Icsta 2022) – Sponsers: AICTE , Nabard And Bai, 11-Mar-2022.

- **A Review on IoT – Based Home Automation System**, National Conferences on Advanced Computing Science (NCACS – 2K23), held at Dr. NGP Arts and Science College, Coimbatore -48, 16-Mar -23.

- **E-Crime Reporting Portal**, ICRTCSDA'23, KPR College of Arts Science and Research, Arasur, Coimbatore, ISBN:978-93-91977-10-8, 6-Apr- 23.

- **An Overview – Crop Management System**, ICRTCSDA'23, KPR College of Arts Science and Resesearch, Arasur, Coimbatore, ISBN:978-93-91977-10-8, 3-Feb- 23.

Presentations In Conference

- **Data security using Cryptography Algorithm,** Department of Computer Science, Dr.R.V. Arts and Science College, Karamadai, Coimbatore, 12- Sep - 14.

- **Robot Patrol at Night Using IOT To Improve Security and Monitoring**, ICONGSCED - 2024, United Educational Institution, Periyanaickenpalayam, Coimbatore - 641020, 13- Feb - 2024.

Participation In Seminars

- **Computing Technologies and their Applications,** Kovai Kalaimagal College of Arts and Science,Coimbatore-641109, 25 - Sep -14.

- **Recent Research Problems in Computer Science,** Department of Computer Science, Government Arts College, Udumalpet, Sponsored By Tamil Nadu State Council of Science And Technology, Chennai, 28-Jul-17.

- **Cyberethics : Social And Moral Issues**, Avinashilingam Institute For Home Science And Higher Education For Women, Coimbatore In Association With National Cyber Safety And Security Standards And She Is Entitled With 14 CPE Issued By (NCDRC), 17-Feb-18.

- **Recent Advances in Data Science, Data Analytics and Cyber Security,** Department of CSE at Shri Vishnu Engineering College for Women (A) , Bhimavaram, and also cleared the exam successfully, 1-5-Mar-23.

Participation In Workshop

- **Computer Vision and Image Processing Techniques NWCVPT '16**, Organized By Department of Computer Science and Engineering, Department of Computer and Engineering, Coimbator,18 & 19 - Mar -16.

- **Setting Up a Private Cloud In College Using Opennebula Cloud Computing Software**, Organized By Department Of Information Technology, Dr. Maghalingam College Of Engineering And Technology, Pollachi. 8 & 9 -Sep -17.

- **Big Data Analytics Using Hadoop** Organized By The Department of B. Com (Accounting & Finance) & B. Com (Business Analytics), Government Arts College, Coimbatore, 8 & 10-Feb-18,

- **Python Programming**, Organized By Post Graduate Department of Computer Applications, Government Arts College (Autonomous), 21 & 22 -Feb-18.

- **Nine Days National Level Workshop on DEVOPS** organized by the Faculty of Science and Humanities, Department of Computer Science & Applications, SRM Institute of Science and Technology, Ramapuram, Chennai - 600089, 16-Jun-23 to 24 - Jun-23.

- Artificial Intelligence workshop organized by NoviTech R & D Private Limited certified ISO Company 9001:2015, 25-Sep-23.,

Participation in Faculty Development Programme

1. Online Faculty Development Programme on "Data Science Specialization using Python", Dr. SNS Rajalakshmi College of Arts and Science, Coimbatore, from 19-June-23 to 23-june-23.

2. Online Faculty Development Programme on "Research Tools and Methodologies", Sri Krishna Adithya College of Arts and Science, Coimbatore, from 07-June-2023 to 13-june-2023.

3. Online Faculty Development Programme on "Recent Advances in Data Science, Data Analytics and Cyber Security", Shri Vishnu Engineering for Women(A), Bhimavaram, from 01-March-2023 to 05-March-2023.

4. International Online Faculty Development Programme on "Research toolbox Reloaded: Amplify you Scholarly Endeavours" , Department of Computer Application (PG), from 21-Aug-2023 to 25-Aug-2023.

5. Five day Faculty Development Programme on "Empowering Education from innovation - A NEP Perspective" Dr.N.G.P. Arts and Science College, Coimbatore, India, from 10-Jun-23 to 04-Jun-2023.

6. Five day Faculty Development Programme on " Outcome Based Education" Dr.N.G.P. Arts and Science College, Coimbatore, India, from 17-Jun-2023 to 21-Jun-2023.

7. Five day Faculty Development Programme on " Universal Human Values" HKBK College of Engineering, HKBKCE, India, from 11-Sep-2023 to 15-Sep-2023.

8. Five day Faculty Development Programme on "Emerging Research Trends in Computer Science" KG College of Arts and Science, Coimbatore, India, from 08-Jan-2023 to 12-Jan-2023.

9. Five day Faculty Development Programme on " Outcome Based Education" Dr.N.G.P. Arts and Science College, Coimbatore, India, from 17-Jun-2023 to 21-Jun-2023.

10. Five day Faculty Development Programme on " Ensuring Research Integrity: A Digital Hygine Approach with Blockchain Technology",Sri Krishna Arts and Science College, Coimbatore, India, from 26-Feb-2024 to 01-Mar-2024.

Invited Speaker / Session Chair- Conference / Seminar / Workshop

1. Invited Resource Person, Contemporary Issues, **Mobile Ad hoc Networks**, KG College of Arts and Science Affiliated to Bharathiar University – Coimbatore-35, Venue Google meet, 8-Apr-23.

2. Invited Resource Person, seminar on, **Intellectual Property Rights**, Department of Information Technology, (Cyber Cell), Rathinam College of Arts & Science, Pollachi Road, KPM Nagar, Eachanari, Coimbatore, Tamil Nadu, India -64102, 25-Aug-23.

3. Invited Resource Person, Seminar on, **Mobile Adhoc Netwrok,** Pioneer College of Arts and Science, Science Affiliated to Bharathiar University – Coimbatore-47, Venue Google meet, 8-Mar-24.

Awards / Honors

- Received Best Ph.D Thesis Award from Sri Nalla Gounder Research & Innovation Awards, Dr.N.G.P. Arts and Science College, Coimbatore, 19-Mar-2024
- Received Permanent Qualification Approval for Assistant Professor (un-aided) of Dr.N.G.P. Arts and Science College, Coimbatore, 22-Sep-2024.