

Name: Dr. Poorana Senthilkumar S

Designation: Assistant Professor

Department: Computer Applications

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

Experience: Teaching: 13.7 Years Industry: 1 Year Research:4 Years

Area of Specialization(s) : Internet of Things, Mobile Computing,
Wireless sensor Network, VANET

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Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	Bharathiar University, Coimbatore	2023
M.Phil.	Computer Science	Vinayaka Mission University, Salem	2009
M. C. A	Computer Applications	SSM College of Engineering, Komarapalayam	2008
B. Sc	Computer Science	Bharathidasan College of Arts and Science, Erode	2004

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
NPTEL	C Programming	IIT Kanpur	2017
SWAYAM	Annual Refresher Programme in Teaching (ARPIT) – March 2019, Latest Trends in Pedagogy and Assessment	IIT Kanpur	2019

Research Publications (Indexed)

International

1. S.PooranaSenthilKumar and Dr.B.Subramani, “RPL Protocol Load balancing Schemes in Low-Power and Lossy Networks” submitted in International Journal of Scientific Research in Computer Science and Engineering (ISROSET) E-ISSN: 2320-7639 Volume:11 Issue:01, February 2023 –Available at https://www.isroset.org/pdf_paper_view.php?paper_id=3045&2-ISROSET-IJSCSE-08512.pdf (Peer Reviewed)

2. S.PooranaSenthilKumar and Dr.B.Subramani, “RPL Protocol Limitations, and Open Challenges in Internet of Things: A Review” Published in International Journal of Advanced Research in Computer and Communication Engineering ISSN (O) 2278-1021, ISSN (P) 2319-5940, Volume.12, Issue 1, January 2023 – Available at <https://ijarcce.com/issues/volume-12-issue-1-january-2023/> (Peer – Reviewed)
3. S.PooranaSenthilKumar and Dr.B.Subramani, “RPL PROTOCOL INFLUENCE IN IOT APPLICATIONS” Published in International Research Journal of Modernization in Engineering Technology and Science(IRJMETS) e-ISSN:2582-5208, Volume: 05 Issue:01,January 2023–Available at <https://www.irjmets.com/pastvolumeissue.php?page=5&p=56> (Peer Reviewed)
4. S.PooranaSenthilKumar and Dr.B.Subramani, “Enhanced Objective Function ETX Metric in Routing Protocol for Low-Power and Lossy Networks (RPL)”, Published in International Journal of Computer Networks and Applications (IJCNA), ISSN: 2395-0455 Volume 9, Issue 4, July–August 2022 –Available at <https://www.ijcna.org/issues.php?vol=9&issue=4> (Indexed in Scopus)
5. S.PooranaSenthilKumar and Dr.B.Subramani,, “Evolutions of Low Power and Lossy Networks Protocols in the Internet of Things: A Review” Published in International Journal of Information Technology and Electrical Engineering (ITEE) ISSN: 2306-708X Volume 11, Issue 3 June 2022- Available at http://www.iteejournal.org/Archive_june_2022.php (Indexed in UGC).
6. S.PooranaSenthilKumar, “IoT Applications Challenges Privacy and Security” International Journal of Research in Engineering and Science (IJRES),Vol- 9 Issue-3 2021 PP. 36-39, ISSN : 2320-9356 (Indexed in UGC).
7. S.PooranaSenthilKumar and Dr.B.Subramani, “Study on IoT Architecture, Application Protocol and Energy needs” Published in International Journal of Scientific Research in Network Security and Communication IJSRNSC) E-ISSN:2321-3256 - Volume-8, Issue 5, October 2020 – Available at : https://www.ijsrns.org/archive_issue.php?pub_id=83 (Peer Reviewed)
8. S.PooranaSenthilKumar and Dr.B.Subramani, “ Survey on Vehicular Adhoc Network Existing protocol QoS Performance and Characteristics”,International Journal of Scientific research in Computer Applications and Management Studies,Vol.8,Issue.1, January 2019, ISSN:2319-1953. (Indexed in UGC).
9. S. Pooranasenthilkumar, “A REVIEW OF MAC ADDRESS FILTERING AND SPOOFING IN WINDOWS OPERATING SYSTEM”,International Education and Research Journal,Vol. 3,Issue. No. 5,pp.705-706,May-2017,E-ISSN : 2454-9916.(Indexed in UGC)

10. S. Pooranasenthilkumar, "ZIGBEE WITH XMPP APPLICATION SERVER INSTANT MESSAGE COMMUNICATIONS TOOLS", International Journal of Trends in Research and Development, Vol.3(6),pp.323-325, Nov-Dec 2016,ISSN No:2394-9364 (Indexed in UGC)

National

1. Pooranasenthilkumar S,"ISSUES OF VARIOUS ATTACKS IN MOBILE AD-HOC NETWORKS", Recent Trends in Computing Techniques,pp. 127-132,ISBN : 938065730-7.
2. Pooranasenthilkumar S, "ENERGY EFFICIENT ROUTING PROTOCOLS IN MOBILE AD HOC NETWORK BASED ON ENHANCED AODV ROUTING PROTOCOL", IJCSMC International Journal, Vol-2, Issues 7,July 2013 ,Online: ISSN2320-088X.
3. Pooranasenthilkumar S, "SURVEY OF VARIOUS SECURITY ATTACKS AND IT ISSUES IN MANET", IJETCAS international journal, Special Issue NCRICA -14- 2014, ISSN (Online): 2279-0055, ISSN (Print): 2279-0047.

Presentations in Conference

International

1. EVALUATION OF ROUTING PROTOCOL FOR LOW-POWER AND LOSSY NETWORKS (RPL) IN INTERNET OF THINGS USING OBJECTIVE FUNCTION" Two days International Conference on Computing and Intelligent System (ICCIS'21), Sri Krishna Adthiya College of Arts and Science, Coimbatore – 25-26 Aug-2021.
2. A SURVEY ON FLYING AD-HOC NETWORK(FANET) COMMUNICATION PROTOCOLS, International Conference on "Research Trends in Computing Technologies ICRTCT – 18", Dr. N.G.P. Arts and Science College, Coimbatore, 9-Sep-18 & 10-Sep-18.

National

1. SURVEY ON COMMUNICATION PROTOCOLS IN FLYING AD-HOC NETWORK (FANET), National Conference on Emerging research trends in Computer Science and Technology, SNMV College of arts and science and Institute of Management, Coimbatore, 1-Feb-19
2. MEDIUM ACCESS CONTROL PROTOCOLS FUNCTION IN OPTICAL NETWORK.National Conference on "Emerging Trends in Big -Data Technologies and Research Issues", Dr. N.G.P Arts and Science College, Coimbatore, 24-Feb-17.
3. ISSUES OF VARIOUS ATTACKS IN MOBILE AD HOC NETWORKS, National Conference at Aignar Anna College, Krishnagiri, 07- Feb- 15
4. SECURITY ISSUES AND CHALLENGES IN WIRELESS NETWORKS . National Conference at PSGR Krishnammal College for Women,Coimbatore, 5-Feb-16.
5. A LOW POWER WIRELESS TECHNOLOGY FOR HOME APPLICATIONS USING ZIGBEE.

National Conference New Innovations in Computing Technology at Navarasam Arts and Science college for women, Erode 12-Sep- 14

6. A SURVEY OF SECURITY ISSUES IN MANET, National Conference at Sri Ramakrishna Mission vidhyalya college of Arts and Science, Coimbatore , 23-Sep-14

Participation in Conference

National:

1. Emerging Education Models for 21st century Learner (NCEEM- 2015), Association of Principals of College Bharathiar University Jointly with UGC HRDC, Bharathiar University, August 2015 at Dr.N.G.P Arts and Science College, Coimbatore. 1- Aug-15.
2. Research Trends in Computer Technologies, Dr.N.G.P. Arts and Science College, Coimbatore, 30- Jan- 14 to 31-Jan-14.

Participation in Seminars

1. Industry 4.0 Technologies, Outcomes & Future of Manufacturing, (ICSSR Sponsored), Christ University, Bangalore, 26-Aug-2022
2. Cybersecurity and Its Applications, SRM Institute of Science and Technology Tiruchirappalli ,04-Apr-2022
3. BIG DATA STORAGE AND ANALYTICS, Dr. N.G.P Institute of Technology, Coimbatore, 27- Dec-2013
4. RECENT TECHNOLOGY IN IT, KG College of Arts and Science, Coimbatore 9- Feb-2013.
5. TEMPORAL PARALLELISM & UNLOCK POTENTIAL, Maharaja Coeducation Arts and Science College, Erode,21-Feb -2012.

Participation in Workshop

1. One day National Level workshop on Outcome Based Education by IPSR Solution Limited Kerala, 04-Mar-2023.
2. One day National Level workshop on Advanced Artificial Intelligence (AI) Methods in Breast Cancer Diagnosis and Clinical Research, Dr. N.G.P. Arts and Science College Coimbatore, 26-Nov-2022.
3. NPTEL workshop, PSG College of Arts and College,22-Jan-18
4. MOBILE APPLICATION DEVELOPMENT, Dr. N.G.P. Arts and Science College, Coimbatore 18-Dec-17 to 19- Dec – 17.
5. DATA VIZUALIZATION WITH Tableau. N.G.P. Arts and Science College, Coimbatore 07-Aug-17 to 8-Aug-17.

6. MATLAB FOR SOLVING RESEARCH PROBLEMS, Center for Research, Dr.N.G.P. Arts and Science College, Coimbatore, 31-Jul-17.
7. FINISHING SCHOOL TRAINING PROGRAMME FOR FACULTY MEMBERS-2010, Department of Extension and Career Guidance, Bharathiar University, Coimbatore .3-Jan-11 to 5-Jan-11.

Participation in Orientation Programme / Short Term Courses

1. IMPLEMENTATION OF NEP2020 FOR UNIVERSITY AND COLLEGE TEACHERS, UGC- Approved Short Term Professional Development Programme, INDIRA GANDHI NATIONAL OPEN UNIVERSITY, Staff Training and Research Institute of Distance Education New Delhi, 07-15 Oct-2022.
2. SHORT TERM COURSE ON TEACHING AND LEARNING TECHNIQUES IN HIGHER EDUCATION, UGC Sponsored – Human Resource Development Centre, Bharathiar University, 29-Aug-2016 to 3-Sep-2016.
3. INSPIRE INTERNSHIP SCIENCE CAMP, Sponsored by Department of Science & Technology, Govt. of India, Dr. N.G.P. Arts and science College, Coimbatore, 18-Nov-2013 to 22-Nov-2013.

Participation in Faculty Development Programme

1. Five day FDP on “IQAC FDP SERIES - KNOWLEDGE TRANSFORMATION PROGRAMME”, SANKARA college of science and commerce, 24-Jan-22 to 29-Jan-22.
2. Five day FDP on “BLOCK CHAIN TECHNOLOGY - APPLICATIONS, ISSUES AND CHALLENGES”, Sri Venkateswara college of Engineering and Technology, Chittoor, Andhra Pradesh,18-Apr-22 to 22.04.2022.
3. Online FDP on “RESEARCH METHODOLOGY AND PEDAGOGY FOR TERTIARY EDUCATION”,Dr.N.G.P. Arts and Science,15-Jun-21 to 21-Jun-21.
4. INTRODUCTION TO R PROGRAMMING, ICT Academy, Dr. N.G.P. Arts and Science College, Coimbatore, 30-Aug-18 to 31-Aug-18.
5. QUALITY MEASURES IN HIGHER EDUCATION, Dr.N.G.P Arts and Science College ,Coimbatore, 3- Dec-18 to 9-Dec-18.
6. STRESS MANAGEMENT, ICT Academy, Sri Jayendra Saraswathy Maha Vidyalaya College of Arts and Science, Coimbatore, 12-Jul-18 & 13-Jul-18.
7. EXPLORING DATA SCIENCE- AN INSIGHT INTO DATA ENGINEERING, Technoturff, Coimbatore, 27-Jan-18 to 28 - Jan- 18.

8. MOBILE APP DEVELOPMENT, ICTACT, Sengunthar Engineering College, Erode, 15-Dec-15 to 19-Dec-15
9. ENHANCING TEACHING SKILLS MISSION 10X, WIPRO, Dr. N.G.P. Arts and Science college Coimbatore, 6- Aug -13 to 8-Aug- 13.
10. .NET(C#) MICROSOFT CERTIFICATE, ICTACT ,Sengunthar Engineering College, Erode, 29-Aug-12 to 2-Sep- 12.

Conference / Seminar / Workshop Organized

1. Coordinator, Power Seminar on “EMPLOYABILITY SKILLS FOR THE FUTURE”, ICT Academy, Dr. N.G.P. Arts and Science College, Coimbatore, 5- Jan-19.
2. Coordinator, Faculty Development Programme on INTRODUCTION TO R PROGRAMMING, ICT Academy, Dr. N.G.P. Arts and Science College, Coimbatore, 30-Aug-18 to 31-Aug-18.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership
International Association of Engineers (IAENG)	Life-time