

Name : K.Gomathy
Designation : Assistant Professor
Department : Computer Applications
Qualification : M.C.A., M. Phil.
Experience : Teaching: 16.9 Years
Area of Specialization(s) : **Networking**
Email (Official ID) : gomathyk@drngpasc.ac.in



Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
M. Phil.	Computer Science	Bharathidasan University	2009
M.C.A	Computer Applications	Bharathidasan University	2003
B.Sc(Applied Sciences)	Computer Applications	P.S.G College of Technology	1997

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
NPTEL	C Programming	IIT Kanpur	2017
NPTEL	Data Base Management System	IIT Kanpur	2019
NPTEL	Internet of Things	IIT Kanpur	2020

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	-	-
M. Phil.	1	-

Research Publications (Indexed)

K. Gomathy “ HIPI: A REVIEW ON HADOOP MAP REDUCE FRAMEWORK USING IMAGE PROCESSING IN BIGDATA”, International journal of computer science and engineering, Vol.06 , Issue.08 , pp.34-39, Oct-2018 ISSN: 2229-5631 (Indexed in UGC).

K. Gomathy & P.Dineshkumar " DETECTION OF ROUTING MISBEHAVIOR IN MANET BY ENHANCED 2 ACK SCHEME USING DSR PROTOCOL", International journal of Engineering and Computer Science, Vol. 2, Issue.7 , pp. 2221-2227, July 2013, ISSN:2319-7242(Indexed in Google Scholar)

Other Publications: International / National Journals

K.Gomathy & K.E.Hemapriya "SPLIT MULTI PATH ROUTING WITH MAXIMALLY DISJOINT PATHS IN AD-HOC NETWORKS" , International Journal of Emerging Technologies in Computational and Applied Sciences , Vol.1 ,Special issue ,pp 74-77 7 ,February 2014, ISSN 2279-0055

K.Gomathy & P.Mohanasundari & R.Rajeshkanna " SURVEY OF SPECTRUM SENSING ISSUES AND ATTACKS IN COGNITIVE RADIO NETWORKS”, International Journal of Scientific and Engineering Research, Vol. 1, Special Issue 7, pp 66-73, February 2014 , ISSN 2279-0055.

K.E.Hemapriya & K.Gomathy “A SURVEY PAPER OF CLUSTER BASED KEY MANAGEMENT TECHNIQUES FOR SECURED DATA TRANSMISSION IN MANET”, International Journal of Advanced Research in Computer and Communication Engineering Vol, 5, Issue, 10, pp.511-513 October 2018, ISSN 2319-5940

P.S. Vijiyalakshmi & K.Gomathy & Dr.C.Kumuthini” HIPI: A REVIEW ON HADOOP MAP REDUCE FRAMEWORK USING IMAGE PROCESSING IN BIGDATA”, International journal of computer science and engineering, Vol.06 , Issue.08 , pp.34-39, Oct-2018

K.Gomathy,” QFNSS BASED SCHEDULING ALGORITHM IN MOBILE AD-HOC NETWORKS”, Journal of Emerging Technologies and Innovative Research (JETIR)”, Volume 8, Issue 6 , Page No: a702-a707, Year June-2021, ISSN Number: 2349-5162 UGC Journal No :63975

K.Gomathy,” Integration of WiFi With WiMAX Technology in Vehicular Ad-hoc Networks”, International Journal of Scientific Research in Computer Science, Engineering and

Presentations in Conference

1. VOICE OVER IP, National Conference on Advanced Trends in Computer Technology , Dr.N.G.P Arts and Science College , 3-Feb- 12
2. ACKNOWLEDGE BASED DETECTION FOR ROUTING MISBEHAVIOR IN MANETS ,International Conference on Competency Building Strategies in Business and Technology for Sustainable Development, Sri Ganesh School of Business Management, Salem, 22-Feb-13
3. SPLIT MULTIPATH ROUTING WITH MAXIMALLY DISJOINT PATH IN AD HOC NETWORKS, Paper presented in National Conference at Dr.N.G.P Arts and Science College , Coimabore, 21-Feb-14
4. A SURVEY OF SECURITY ISSUES IN MANET. National Conference on emerging Computer Technology , Sri Ramakrishna Mission vidhyalya college of Arts and Science , Coimbatore , 23-Sep-14
5. HYBRID TEMPORAL SEQUENTIAL PATTERN MINING SCHEME FOR MOBILE SERVICES , National level seminar on New Innovations in Computing Technology, Navarasan Arts and Science College for Women, Erode, 12-Sep-14.
6. ANALYSIS OF EFFICIENT ALERT ROUTING PROTOCOL IN MANET. International Conference on Big Data Analysis and Distributed Systems , Periyar University College of Arts and Science , Salem , 12-Sep-15
7. ISSUES OF VARIOUS ATTACKS IN MOBILE AD HOC NETWORKS, National Conference on Recent Trends in Computing Techniques , Arignar Anna College , Salem, 07-Feb- 15

8. KEY MANAGEMENT PROTOCOLS AND OPTIMAL KEY MANAGEMENT IN WIRELESS NETWORKS.National Conference on Emerging Computer Technology , Sri Ramakrishna Mission Vidyalaya College of Arts and Science ,Coimbatore, 22-Sep-15.
9. TRAITOR TRACING AND SECURE TRANSMISSION OF FILE,National Conference on Information and Communication technologies for environmental sustainability , PSGR Krishnammal College for Women , Coimbatore ,5-Feb- 16.
10. SURVEY OF CLUSTER BASED KEY MANAGEMENT TECHNIQUES FOR SECURED DATA TRANSMISSION IN MANET, National Conference on Emerging Trends in Big Data Technologies and Research Issues, Dr. N.G.P Arts and Science College, Coimabtoe 24-Feb- 17.
11. WI-FI IN AD-HOC NETWORKS,National al Conference on Emerging Trends in Computing and Communication ,Karpagam University on 17-Feb- 17.
12. ANALYSIS OF VARIOUS SECURITY CHALLENGES IN VEHICULAR ADHOC NETWORKS , National Conference on Recent TRernds and Advances in the Field of Information Technology , Karpagam Academy of higher education , 22-Sep- 17
13. EDGE COMPUTING, International Conference on Recent Trends in Computing Technologies, Dr.N.G.P Arts and Science College, Coimbatore, 9- Aug-18 & 10-Aug-18
14. A REVIEW ON HADOOP MAP REDUCE FRAMEWORK USING IMAGE PROCESSING IN BIGDATA , International Conference on Recent Trends in Computing Technologies, Dr.N.G.P Arts and Science College, Coimbatore, 9- Aug-18 & 10-Aug-18.
15. ROUTING PROTOCOLS:FLYING AD-HOC NETWORKS, International Conference on Engineering and Technolgy , Rathinam Technical Campus , 30-Aug-18 and 31-Aug-18
16. VIRTUAL REALITY AND ITS CHALLENGES , National Conference on Recent Trends and Advances in the Field of Information Technology, Karpagam Academy of Higher Education,2-Sep-18

17. SECURING DATA TRANSFER IN CLUSTER BASED WIRELESS SENSOR NETWORKS. National Conference on Emerging Research Trends in Computer Science and Technology at SNMV College of Arts and Science ,29-Jan-20
18. IMPROVING DATABASE SECURITY IN LCOUD COMPUTING , Second International Conference on Research Trends in Computing Technologies, Dr.N.G.P Art and Science College 28-Feb-2020 and 29-Feb-2020
19. IoT ENABLED GARBAGE BIN ,International Conference on Digital Information Security and Computing Technologies in collaboration with LINCOLN university Malaysia , 08-04-22 and 09-04-22
20. Computing Strategies For Green Cloud, National Conference on Cyber Security and Digital Forensics for Society, PSGR Krishnammal College for Women,19.10.2022 and 20.10.2022
21. Greedy Perimeter Stateless Routing for Wireless Sensor Network, National Conference on Advanced computing Sciences , Dr.N.G.P Arts and Science College,16.03.2023

Participation in Conference

International:

International Conference on Research Trends in computer Technologies , Dr.N.G.P Arts and Science College, 30-Jan-14 & 31 Jan-14

International Conference on Advances in IOT, High Performance in Edge Computing , ICT Academy 14-Oct-2020 to 18-Oct-2020

National:

State level Conference on Achieving Academic Excellence through Internal Quality Assurance Cell on 9-Dec-11 and 10-Dec-11.

National Conference on Emerging Education Models for 21st Century Learner , Association of Principals of Colleges of Bharathiar University , 1-Aug-15

Participation in Seminars

1. IMPACT OF ICT IN HIGHER EDUCATION. National Seminar on Best Practices in Enhancing the quality of Higher Education , Dr.N.G.P College of Education , Coimbatore- 16-Mar-12 to 17-Mar-12

Participation in Workshop

1. BIG DATA ANALYTICS USING WEKA, Karpagam University ,3-Mar-15.
2. STATISTICAL TOOLS USING R-LANGUAGE- A HANDS ON TRAINING, Dr.N.G.P Arts and Science College,23-Sep -16 & 24-Sep-16
3. PYTHON PROGRAMMING , XPLORE IT CORP, Dr.N.G.P Arts and Science College, 14-Oct-17 & 15-Oct-17
4. INTRODUCTION TO PYTHON PROGRAMMING , ICT academy,Sri Ramkrishna College of Arts and Science ,17-Dec-18 & 18-Dec-18
5. Zero Coding : Data Analytics and Machine Learning for IoT Automation, VIT Chennai,21-06-21 to 25.06.21

Participation in Orientation Programme / Short Term Courses

RESEARCH CHALLENGES & SECURITY ISSUES IN WIRELESS NETWORKS(ISTE Sponsored) , Dr.N.G.P Institute of Technology ,7-Dec-15 to 11-Dec-15.

Participated IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28th April to 22nd May 2020

Participation in Faculty Development Programme

Two days Capacity Building Programme on Drug Abuse Prevention , Bharathiar University, Coimbatore ,27.02.2023 and 28.02.2023

Five Days online FDP on CHALLENGES FOR STUDENTS IN THE NEW NORMAL Government Arts College , Coimbatore, 13/02/2023 to 17/02/2023

Five days Virtual faculty Development Programme on Data Analytics Visualization using Tableau at G.V.G Vishalakshi College for Women ,14.11.2022 to 18.11.2022

Virtual faculty Development Programme on Research Advancements in Intelligent Computing Technologies , Sri Krishna College of Engineering and Technology 19.12.2022 to 23.12.2022

One week online FDP on “Next Generation Computing”,SRN institute of Science and Technology,18-Apr-22 to 23-04-22

Five days online FDP on “Recent Trends in Computing”, Sree Narayana Guru College,08-Dec-21 to 12-Dec-21

Online FDP on “Research Methodology and Pedagogy for Tertiary Education”, Dr.N.G.P. Arts and Science,15-Jun-21 to 21-Jun-21.

FACULTY DEVELOPMENT PROGRAMME ON R LANGUAGE, Spoken Tutorial,4-May-2020 to 9-May-2020

FACULTY DEVELOPMENT PROGRAMME ON PYTHON 3.4.3 LANGUAGE, Spoken Tutorial,20-April-2020 to25-April-2020

FACULTY DEVELOPMENT PROGRAMME ON BOSS LINUX –UBUNTU OPEARTING SYSTEM LANGUAGE, Spoken Tutorial,15-April-2020 to21-April-2020

FACULTY DEVELOPMENT PROGRAMME ON BOSS JAVA PROGRAMMING , Spoken Tutorial,5-April-2020 to 13-April-2020

CHALLENGES AND OPPURTUNITIES IN START UP AND INNOVATION , MAHENDAR INSTITUTE OF TECHNOLGY, 14-Jul -2020

ONLINE IIC SESSIONS ,MHRD INNOVATION CELL, 28-Apr -2020 to 22- May -2020

SEVEN DAYS FACULTY DEVELOPMENT PROGRAMME ON NACC REVISES ACCREDITATION FRAME WORK AND OBE ASSESMENT METHODOLOGY, Dr.N.G.P Arts and Science College, 27-May-2019 to 2- June 2019

FACULTY DEVELOPMENT PROGRAMME ON ENTREPRENEURSHIP , PSGR Krishnammal College for Women, 16-Sep-2019 to 28-Sep-2019

QULATY MEASURES IN HIGHER EDUCATION , Dr.N.G.P Arts and Science College, 03-Dec -18 & 09-Dec-18

FOUNDATION PROGRAM IN ICT FOR EDUCATION . Indian Institute of Technology Bombay,
Online , 3-Aug-17 to 7-Sep-17

PEDAGOGY FOR ONLINE AND BLENDED TEACHING _LEARNING PROCESS , Indian Institute
of Technology Bombay, Online , 14-Sep-17 to 12-Oct-17

C# & .NET Framework , Dr.N.G.P Institute of Technology, Coimbatore,28-Jun-11 to 2-Jul-11.

Conference / Seminar / Workshop Organized

Session Chair, National Seminar on The Future of Artificial Intelligence and Machine Learning
Tools & its Applications for Rural Health Care: A New Paradigm, Dr.N.G.P Arts and Science College,
14th February 2020

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
IAENG	LIFE TIME	-

Book Chapter

Published paper entitled enabled Garbage Bin in Digital Information Security and Computing Technologies-
volume 1 ISBN: 978-93-5820-321-1, 08-04-22 and 09-04-22