Name	: K.Gomathy	
Designation	: AssistantProfessor	
Department	: Computer Applications	
Qualification	: M.C.A.,M.Phil.	
Experience	: Teaching: 18.9Years	
Area of Specialization	(s) : Networking	
Email(OfficialID)	: gomathyk@drngpasc.ac.in	



AcademicQualifications

Degree	Branch	Institution/ UniversityName	Yearof Graduation
PhD	Computer Science	P.S.G College of Arts and Science	2024
M.Phil.	ComputerScience	BharathidasanUniversity	2009
M.C.A	Computer Applications	BharathidasanUniversity	2003
B.Sc(Applied Sciences)	Computer Applications	P.S.G CollegeofTechnology	1997

Additional Qualifications

Diploma/Vo cational/Cer tification	AreaofSpecialization	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
NPTEL	Cloud Computing	IIT Kanpur	2024

ResearchGuidance

Drogramma	No. ofScholars	
Programme	Completed	Pursuing
Ph.D.	-	-
M.Phil.	1	-

ResearchPublications(Indexed)

K.Gomathy "HIPI:AREVIEW ONHADOOPMAP REDUCEFRAMEWORK USINGIMAGEPROCESSING IN BIGDATA", International journal of computerscience and engineering, Vol.06 ,Issue.08,pp.34-39,Oct-2018 ISSN:2229-5631(IndexedinUGC).

K.Gomathy&P.Dineshkumar"DETECTIONOFROUTINGMISBEHAVIORINMANETBYENHANCED 2 ACK SCHEME USING DSR PROTOCOL", International journal of Engineering andComputerScience,Vol.2,Issue.7,pp.2221-2227,July2013,ISSN:2319-7242(IndexedinGoogleScholar)

OtherPublications:International/NationalJournals

K.Gomathy, "Homomorphic Encryption for Edge Computing Security", Journal of Cyber Security Privacy Issues and Challenges Vol 3, Issue 3, Dec 2024

K.Gomathy ,"Ant with Artificial Bee Colony Techniques in Vehicular Ad-hoc Networks", International Journal of Data Informatics and Intelligent computing (IJDIIC) Vol. 2, No. 3, September 2023, pp. 21~28

K.Gomathy," Integration of WiFi With WiMAX Technology in Vehicular Ad-hoc Networks", International Journal of Scientific Research in Computer Science, Engineering andInformation Technology, Volume 7, Issue 2 Page Number : 35-39 March-April-2021, ISSN:2456- 3307 UGCJournalNo:64718

K.Gomathy, "QFNSSBASEDSCHEDULINGALGORITHMINMOBILEAD-HOCNETWORKS", Journal of Emerging Technologies and Innovative Research (JETIR)", Volume 8,Issue 6,Page No:a702-a707,YearJune-2021,ISSNNumber:2349-5162UGCJournalNo:63975

K.E.Hemapriya & K.Gomathy "A SURVEY PAPER OF CLUSTER BASED KEY MANAGEMENTTECHNIQUESFORSECUREDDATATRANSMISSIONINMANET", International Journal of Advanced Research in Computer and Communication Engineering Vol, 5, Issue, 10, pp.511-513October2018,ISSN2319-5940

K.Gomathy&P.Mohanasundari&R.Rajeshkanna"SURVEYOFSPECTRUMSENSINGISSUESAND

ATTACKS IN COGNITIVE RADIO NETWORKS", International Journal of Scientific and Engineering Research, Vol.1, SpecialIssue7, pp66-73, February2014, ISSN 2279-0055.

K.Gomathy&K.E.Hemapriya" SPLIT MULTIPATH ROUTING WITH MAXIMALLY DISJOINT PATHS NETWORKS",InternationalJournalofEmergingTechnologiesinComputationalandAppliedSciences,Vol.1 ,Specialissue,pp 74-77 7,February2014,ISSN2279-0055

PresentationsinConference

- A smart Motion Analysis System for Fitness and Rehabilitation Applications, International Conference "Intelligent Automation & NextGen Innovations ", PSG College of Arts and Science ,10.01.2025
- An audio Recognition of Animals using optimized Deep Learning Techniques for the Conservation of Wildlife, National Conference on Next Gen Information Science Communication Technology, SRM University, 04.11.2024
- Computing Strategies for Green Cloud, International Conference on Computational Intelligence and Communication Technologies, Dr.N.G.P Arts and Science College, 04.01.2024
- Cyber Security-Challenges and its Emerging Latest Technologies, International Conference on Computational Intelligence and Biological Science, Sri Ramakrishna college for Women, 05.11.2023
- Greedy Perimeter Stateless Routing for Wireless Sensor Network, National Conference on Advanced computing Sciences, Dr.N.G.PArts and ScienceCollege, 16.03.2023
- Computing Strategies For Green Cloud, National onference on Cyber Security and Digital Forensics for Society, PSGR Krishnammal College for Women, 19.10.2022 and 20.10.2022
- IoT ENABLED GARBAGE BIN ,International Conference onDigital Information Security andComputing Technologies in collaboration with LINCOLN university Malaysia, 08-04-22 and 09-04-22

- IMPROVING DATA BASE SECURITY IN CLOUD COMPUTING, Second International Conference on Research Trends in Computing Technologies, Dr.N.G.P Art and Science College28-Feb-2020and29-Feb-2020
- 9. SECURING DATA TRANSFER IN CLUSTER BASED WIRELESS SENSOR NETWORKS.National Conference on Emreging Research Trends in Computer Science and Technology at SNMV College of Arts and Science,29-jan-20
- 10. VIRTUAL REALITY AND ITS CHALLENGES, National Conference on Recent Trends andAdvances in the Field of Information Technology, Karpagam Academy of Higher Education,2-Sep-18
- 11. ROUTING PROTOCOLS :FLYING AD-HOC NETWORKS, International Conference on Engineering and Technolgy, Rathinam TechnicalCampus, 30-Aug-18and31-Aug-18
- 12. A REVIEW ON HADOOP MAP REDUCE FRAMEWORK USING IMAGE PROCESSING INBIGDATA, International Conference on Recent Trends in Computing Technologies, Dr.N.G.P Arts and Science College, Coimbatore,9-Aug-18&10-Aug-18.
- 13. EDGE COMPUTING, International Conference on Recent Trends in Computing Technologies, Dr.N.G.PArtsandScienceCollege, Coimbatore, 9-Aug-18&10-Aug-18
- 14. ANALYSIS OF VARIOUS SECURITY CHALLENGES IN VEHICULAR AD HOC NETWORKS, National Conference on Recent TRernd sand Advances in the Field of Information Technology, Karpagam Academy of higher education,22-Sep-17
- 15. WI-FI IN AD-HOC NETWORKS, National al Conference on Emerging Trends in Computing and Communication, Karpagam University on 17-Feb-17.
- 16. SURVEYOFCLUSTERBASEDKEYMANAGEMENTTECHNIQUESFORSECUREDD ATA TRANSMISSION IN MANET, National Conference on Emerging Trends in Big DataTechnologiesandResearchIssues,Dr.N.G.PArtsandScience College,Coimabtore24-Feb-17.
- 17. TRAITOR TRACING AND SECURE TRANSMISSION OF FILE, National Conference on Informationanl Communication technologies for environmental sustainability, PSGR Krishnammal College forWomen, Coimbatore, 5-Feb-16.

- 18. 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.
- ISSUES OF VARIOUS ATTACKS IN MOBILE AD HOC NETWORKS, National Conference on Recent Trends in Computing Techniques, Arignar AnnaCollege, Salem, 07-Feb-15
- 20. ANALYSIS OF EFFICIENT ALER TROUTING PROTOCOL IN MANET.International Conference on Big Data Analysis and Distributed Systems ,Periyar University College of ArtsandScience,Salem,12-Sep-15
- 21. HYBRID TEMPORAL SEQUENTIAL PATTERN MINING SCHEME FOR MOBILE SERVICES, National level seminar on New Innovations in Computing Technology, NavarasanArts andScienceCollegeforWomen,Erode,12-Sep-14.
- 22. A SURVEY OF SECURITY ISSUES IN MANET. National Conference on emerging ComputerTechnology, Sri Ramakrishna Mission vidhyalya college of Arts and Science, Coimbatore, 23-Sep-14
- 23. SPLIT MULTIPATH ROUTING WITH MAXIMALLY DISJOINT PATH IN ADHOC NETWORKS, Paper presented in National Conference at Dr.N.G.P Arts and Science College ,Coimabore,21-Feb-14
- 24. 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
- 25. VOICE OVER IP, National Conference on Advanced Trends in Computer Technoloy ,Dr.N.G.PArts andScienceCollege,3-Feb-12

Participation in Conference

International: International Conference on Advances in IOT, High Performance in Edge Computing,

ICTAcademy14-Oct-2020to18-Oct-2020

Jan-14 &31Jan-14

National:

State level Conference on Achieving Academic Excellence through Internal Quality AssuranceCell

on9-Dec-11 and10-Sec-11.

NationalConferenceonEmergingEducationModelsfor21stCenturyLearner,AssociationofPrincipalsof CollegesofBharathiarUniversity,1-Aug-15

Participation in Seminars

- 1. Participated in National Level Seminar on IOT Cyber Security : Challenges and Solutions for Social and Real Life Applications at Dr.N.G.P Arts and Science College at 05.01.2024
- 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-12to17 –Mar-12

ParticipationinWorkshop

- Virtual Seminar on MULTIDISCIPLINARY APPROACH TOWARDS NATIONAL HIGHER EDUCATION QUALITY FRAMEWORK at CAUVERY COLLEGE FOR WOMEN(AUTONOMOUS), Annamalai Nagar, Trichy-620018,05.07.2023 to 06.07.2023
- One Week Faculty Development Programme on the topic "UPSKILL YOUR RESOURCES" (Under UGC Autonomy Grant), Department of Business Administration (SF), Ayya Nadar Janaki Ammal College, Sivakasi ,07-07-2023 to 13-07-2023
- Nine Days National Level Workshop on DEVOPS, Faculty of Science and Humanities, Department of Computer Science & Applications (B.Sc CS), SRM Institute of Science and Technology, Ramapuram, Chennai – 600089, 16.06.2023 to 24.06.2023
- 4. ZeroCoding:DataAnalyticsandMachineLearningforIoTAutomation,VITChennai,21-06-21to25.06.21
- INTRODUCTIONTOPYTHONPROGRAMMING,ICTacademy,SriRamkrishnaCollegeo fArtsandScience,17-Dec-18 &18-Dec-18
- PYTHONPROGRAMMING,XPLOREITCORP,Dr.N.G.PArtsandScienceCollege,14-Oct-17&15-Oct-17
- 7. BIGDATAANALYTICSUSINGWEKA, KarpagamUniversity, 3-Mar-15.
- STATISTICAL TOOLS USING R-LANGUAGE- A HANDS ON TRAINING, Dr.N.G.PArts and ScienceCollege, 23-Sep-16&24-Sep-16

Participation in Orientation Programme/ ShortTermCourses

Participated in National level awareness programme on Institutional Development plan for Higher educational Institutions Telangana Council of Higher Education (TGCHE), and Institute for Academic Excellence (IAE), Hyderabad on 06.03.2025.

Participated IIC Online Sessions conducted by Institution's Innovation Council(IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and StartupsamongHEIs from28thAprilto22nd May2020

RESEARCH CHALLENGES & SECURITY ISSUES IN WIRELESS NETWORKS (ISTE Sponsored), Dr.N.G.P Institute of Technology, 7-Dec-15to11-Dec-15.

Participation in Faculty Development Programme

One week Faculty development programme on Microsoft Azure at Dr.N.G.P Arts and Science College conducted by ICT Academy ,03.02.2025 to 07,02,2025

Five days National Faculty Development Program on AI Tools ,KG College of Arts and Science, Brainovision Solutions India Pvt Ltd , 17.02.2025 to 21.02.2025

One Week National Faculty Development Program on Emerging Research Trends in Computer Science at KG College of Arts and Science, 08.01.2024 to 12.01.2024

One Week National Faculty Development Program on Modern Research Convergence in Next Generation Computing at Krishna College of Arts and Science, 18.12.2024 to 22.12.2024

One Week National Faculty Development Program on Cloud Infrastructure(AWS), KG College of Arts and Science, Brainovision Solutions India Pvt Ltd & All India Council for Techinical Education ,21.08.2023 to 25.08.2023

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

Five Days online FDP on CHALLENGESFORSTUDENTS INTHE NEWNORMAL Government Arts College, Coimbatore,13/02/2023to17/02/2023

Fivedays Virtual faculty Development Programme on Data Analytics Visualization using Tableau at G.V.G Vishalakshi College forWomen ,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 to23.12.2022

Oneweek online FDPon"NextGenerationComputing",SRN institute of Science and Technology,18-Apr-22to 23-04-22

Fivedaysonline FDP on "RecentTrends inComputing", SreeNarayana Guru College,08-Dec-21to12-Dec-21

OnlineFDPon"ResearchMethodologyandPedagogyforTertiaryEducation", Dr.N.G.P.ArtsandScien ce, 15-Jun-21to21-Jun-21.

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

FACULTYDEVELOPMENTPROGRAMMEONPYTHON3.4.3LANGUAGE,SpokenTutorial,20-April-2020to25-April-2020

FACULTYDEVELOPMENTPROGRAMMEONBOSSLINUX–UBUNTUOPEARTINGSYSTEM LANGUAGE,SpokenTutorial,15-April-2020to21-April-2020

FACULTYDEVELOPMENTPROGRAMMEONBOSSJAVAPROGRAMMING,SpokenTutorial,5-April-2020to13-April-2020

CHALLENGESANDOPPURTUNITIESINSTARTUPANDINNOVATION, MAHENDARINSTITUTE OFTECHNOLGY, 14-Jul-2020

SEVEN DAYS FACULTY DEVELOPMENT PROGRAMME ON NACC REVISESACCREDITATIONFRAMEWORKANDOBEASSESMENTMETHODOLOGY, Dr.N.G.PArt s and Science College, 27-May-2019 to 2-June2019

FACULTY DEVELOPMENT PROGRAMME ON ENTREPRENEURSHIP, PSGRKrishnammal CollegeforWomen, 16-Sep-2019 to28-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-17to7-Sep-17

PEDAGOGYFORONLINEANDBLENDEDTEACHING_LEARNINGPROCESS, IndianInstitute ofTechnologyBombay, Online, 14-Sep-17to12-Oct-17

C#&.NETFramework, Dr.N.G.PInstituteofTechnology, Coimbatore, 28-Jun-11to2-Jul-11.

Conference/ Seminar/ Workshop Organized

Organizing member in ICSSR sponsored National level seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education :NEP Perspective at Dr.N.G.P Arts and Science College 04.06.2024 to 05.06.2024

Session Chair, National Seminar on The Future of Artificial Intelligence and Machine LearningTools & its Applications for Rural Health Care: A New Paradigm, Dr.N.G.P Arts and Science College,14thFebruary2020

MembershipinProfessionalBodies

Nameofthe ProfessionalBody	Natureofmembership	Duration
IAENG	LIFETIME	-
INTERNET OF SOCIETY	LIFE TIME	

Book Chapter

Published paper entitledenabled Garbage Bin in Digital Information Security and Computing Technologiesvolume1 ISBN:978-93-5820-321-1, 08-04-22 and09-04-22