



SHENBAGHARAMAN A

Assistant Professor- Senior Grade



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51, Hussain Street, Kovilpatti,
Tuticorin District, TamilNadu

Educational Qualification

Educational Qualification	Branch	Name of the Institution/University	Year of Passing	% of Marks	Class/ Division
Ph.D.	Information and Communication Engineering	Anna University, Chennai	Pursuing	-	-
M.E	Computer and Communication	National Engineering College, Kovilpatti, Anna University, Chennai	2012	8.47 (CGPA)	First Class
B.E	Electronics and Communication Engineering	National Engineering College, Kovilpatti, Anna University, Chennai	2010	74.00 %	First Class

Professional Experience (In chronological order)

Designation	Institution/Organization	Period	Nature of Duties
Assistant Professor (Senior Grade)	National Engineering College, Kovilpatti, Tamilnadu, India	1 year 8 months (May 2023- till date)	Teaching, Research and Administrative works
Assistant Professor	National Engineering College, Kovilpatti, Tamilnadu, India	11 years (June 2012-May 2023)	Teaching, Research and Administrative works

Courses taught

Course Title	U.G. or P.G.
Computer Networks, Green Computing, Software Engineering Methodologies, Operating Systems, Computer Organization and Architecture, Microprocessors and Microcontrollers, Software Testing Techniques, Computer Programming, Problem Solving Techniques, IT Infra Structure Management, High Speed Networks, Storage Area Networks, Research Paper and Patent Review	U.G
Software Project Management, Green Computing	P.G

Publications in SCI Journals

- Published one SCI paper entitled " Trilateration Method Based Node Localization and Energy Efficient Routing Using RSA for Under Water Wireless Sensor Network" in the journal "Sustainable Computing: Informatics and Systems". DOI: <https://doi.org/10.1016/j.suscom.2023.100952>.
- Published one SCI Paper entitled "Secure and Energy efficient Routing Protocol for UWSN Using the Game optimization with XG Boost algorithm" entitled "Journal of Applied Soft Computing". DOI: <https://doi.org/10.1016/j.asoc.2024.112615>.
- "Identifying the Optimal Location to Set up an Emergency Room Using Machine Learning Algorithms" in Journal of Periodico di Mineralogia, Vol 91, 700-710, 2022, IF:0.825. <https://doi.org/10.37896/pd91.4/91446>
- "Mitigation Of Black Hole And Gray Hole Attack Using ABC Algorithm With ANN in WBAN" in the Journal of Tierärztliche Praxis, Vol 41, 882-917,2021, IF:0.288. <https://www.tierarztliche.com/gallery/v41.70.pdf>

Journals Published in SCOPUS indexed journals

- A Circumstantial Analysis On Evidence And Geological Information Based Routing Protocol Inunderwater Sensor Networks. *Journal of Pharmaceutical Negative Results*, 1007–1033. <https://doi.org/10.47750/pnr.2023.14.S01.139>
- Energy And Qos Aware Link Quality Based Clustering Protocol (EQ-LQBC) In Wireless Body Area Networks. *Journal of Pharmaceutical Negative Results*, 1743–1754. <https://doi.org/10.47750/pnr.2023.14.S02.211>
- Investigation on thermal energy aware routing in integrated network for efficient energy storage, *Materials Today: Proceedings*, Volume 66, Part 3,2022, Pages 1168-1174,ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2022.04.980>.

- A Critical Review Analysis of the Opportunities and Potential of Implementing Cloud Computing System for Large Scale Ad Hoc Network," 2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), Greater Noida, India, 2022, pp. 103-106, doi: 10.1109/ICACITE53722.2022.9823732.
- The Recent Advancements in the Wireless Security and Smart Grid Technology in Protecting the Ecological aspects for better Future Generation — Analysis through Structural Equation Modeling," 2022 2nd International Conference on Innovative Practices in Technology and Management (ICIPTM), Gautam Buddha Nagar, India, 2022, pp. 90-94, doi: 10.1109/ICIPTM54933.2022.9754132.
- Safety alert system for elderly care”, Journal of Chengdu University of Technology, Vol 26, Issue No.8, ISSN:1671-9727, Page no: 60-68, 2021, <https://doi.org/10.1063/5.0078342>
- Face Recognition Method For E-Attendance System, Annals of the Romanian Society for Cell Biology, Vol No:25, Issue No:4, Page No: 17443–17453, 2021. <https://www.annalsofrscb.ro/index.php/journal/article/view/7640>
- DESIGN AND IMPLEMENTATION OF SPECULATIVE ADDER FOR HIGH SPEED VLSI ARCHITECTURE. *Design Engineering*, 1699-1705. Retrieved from <http://www.thedesignengineering.com/index.php/DE/article/view/2165>,
- Real-time evaluation of heart beat rate for early detection of cardio vascular inflammation,” “Test Engineering and Management”, ISSN:0193-4120, page no:25215-25219, Vol 41, 2020.
- Secure data storage, privacy data access and computation in cloud computing,” Strad Research- Web of science” Volume 7, issue 6, 2020
- Student leave management system mobile application using flutter Framework,” Journal of Huazhong University of Science and Technology” Volume 50, ISSUE 60, 2021
- Steiner tree based energy efficient data aggregation algorithm in wireless sensor networks, Journal of Applied Science and Computations, ISSN NO:1076-5131, VOL:5, ISSUE NO:11, 2019

List of International Conference

S.No	Name of the Faculty	Title of Paper	Name of the Conference	Year of publication
1.	A.Shenbagharaman	Smart health counselor for cardio vascular inflammation	International conference on innovations in Engineering, Science and Technology, ICIEST 2019	February 2019

2.	A.Shenbagharaman	Android sub-urban railway ticketing using GPS as ticket checker	SEEE Sponsored International conference On latest trends in science, engineering and technology	March 2018
3.	A.Shenbagharaman	Design of intelligent firewall against various attacks of network	SEEE Sponsored International conference On latest trends in science, engineering and technology	March 2018
4.	A.Shenbagharaman	Alumni Discussion Forum	TNSCST Sponsored Seventh International E-Conference on Latest Trends in Science, Engineering and Technology (ICLTSET'21)	March 2021
5.	A.Shenbagharaman	Smart Irrigation System using the Arduino	TNSCST Sponsored Seventh International E-Conference on Latest Trends in Science, Engineering and Technology (ICLTSET'21)	March 2021
6.	A.Shenbagharaman	Face Recognition Method for E-Attendance system	International Conference on Recent Advances in the Computer Science'21	June 2021

List of National Conferences

S.No	Name of the Faculty	Title of Paper	Name of the Conference	Year of publication
1.	A.Shenbagharaman	Design of Intelligent Firewall against various attacks of network	National conference on engineering applications 2018	March 2018

Short term Courses/Seminar/Conference/Workshop Attended

S.No	Institution	Topic	Course Detail	Date
1.	VVDN Technologies	Linux and C Programming	Industrial Training	28.04.2022 & 29.04.2022
2.	AICTE Faculty development program	“AICTE Student Learning Assessment –STTP PARAKH”	Faculty Development Program through online mode	10.01.2022 to 23-01-2021.
3.	IIT Kottayam, Kerala, India	Internet of Things	Faculty Development Program through online mode	December 2021
4..	National Engineering College, Kovilpatti	Faculty Development Program on Entrepreneurship	Faculty Development Program	December 2019
5.	NPTEL-AICTE Faculty development program	Faculty Development Program on Introduction to Internet of Things	Faculty Development Program through online mode	July to October 2019
6.	Mahendra Engineering College at tiruchengode	Agile methodology	Infosys campus connect program	December 2018
7.	IIT Patna	Course on Cyber Security Trends and Technologies	GIAN course	May 2018
8.	IBM Soft layer, Coimbatore	Disaster recovery management in cloud	Industrial Training	February 2018

9.	National Engineering College, Kovilpatti	Research perspectives on VANET	National Seminar	October 2017
10.	TATA consultancy Services, Chennai	SANGAM Assurance Faculty connect program at siruseri, Chennai, TCS	Faculty Development Program	March 2016
11.	National Engineering College, Kovilpatti	IEEE International conference on Computing Technologies and Intelligent Data Engineering (ICCTIDE'16)	International Conference	January 2016
12.	National Engineering College, Kovilpatti	National program on technology enhanced learning	Workshop	March 2015
13.	National Engineering College, Kovilpatti	Emerging technologies with hands on and live demo	Faculty Development Program	November 2014
14.	National Engineering College, Kovilpatti	Empowering Indian Engineering Education for global expectations	National Seminar	November 2014
15.	National Engineering College, Kovilpatti	Research issues and challenges in cloud computing and Big data analysis	National Seminar	May 2014
16.	National Engineering College, Kovilpatti	Recent Advances and Emerging Trends in Life Science Research in BIOCLOUD: Bioinformatics using Cloud Computing Technologies	National Seminar	September 2013
17.	National Engineering College, Kovilpatti	NITTTR-Training programme on Instructional Design and Delivery systems	Teaching Learning Process Training	May 2017

Online Certification Courses Completed

S.NO	Name of the Course	Duration	Online Certification	Year
1.	Cyber Security and Privacy	12 weeks course	NPTEL	November 2024
2.	Computer Networks and Internet Protocol	12 weeks course	NPTEL	April 2022
3.	Introduction to TCP/IP	8 weeks course	COURSERA	March 2022
4.	Wireless Communications for Everybody	8 weeks course	COURSERA	March 2021
5.	One day Workshop on C and C++	One day course	IIT BOMBAY	February 2020
6.	An One day workshop on R	One day course	IIT BOMBAY	November 2019
7.	An Introduction to IOT	12 weeks course	NPTEL	October 2019
8.	Scilab workshop	One day course	IIT BOMBAY	May 2019
9.	Certification Online course on Agile and Scrum overview	One day course	UDEMY	March 2019
10.	Certification Online course on Wordpress	One day course	UDEMY	March 2019
11.	Certification Online course on Software Testing by innovation techniques	One day course	UDEMY	March 2019
12.	Certification Online course on Agile Vs Waterfall models	One day course	UDEMY	March 2019
13.	Computer Architecture and Organization	8 weeks course	NPTEL	October 2017

Contribution to the Institution :

- Member in NEC Alumni Association
- Faculty Coordinator in IEEE- Student Branch Chapter
- Member in NEC Technobation Center
- Organized spoken tutorial workshop for students through QIC
- Press Committee Incharge (2018-2022)
- Member in various committees (NBA, NAAC, Job Fair, Graduation Day, Admission)

Contribution to the Department :

- Department Practical Time table co ordinator
- Third Year Class In charge cum Tutor
- Convener for criteria-1 in Department for NBA
- Convener for criteria-1 in Department for NAAC
- Coordinator for Dept. Saturday Time table
- Coordinator for department Alumni Activities
- Support role for Adjunct Faculty
- Coordinator for Adriot Incubation center (2018-2022)
- Coordinator for Sum two technoabation center (2014-18)
- Department Placement Coordinator (2012-2018)

Sponsored Event Organized:

Book Published:

- Book chapter entitle on “Smart Health Counselor for Cardio Vascular Inflammation” published in the **Book name: Advanced Aspects of Engineering Research**
- Article named “A Meticulous Analysis On Energy Based Routing Protocol In Underwater Sensor Networks “Published in a book chapter entitled” A Springer Nature Computer Science book series (CCIS, LNAI, LNBI, LNBIP or LNCS)”

Expert Lecture Delivered:

→ Lecture delivered to the final year students for training programme on “LINUX WITH C programming” for 30 hours to the CSE and EEE students as a Value added Course.

Industry Practice: In Institute Management System, Hostel module table design and schema diagram has been completed in Bizplus Pvt Ltd, Chennai during 01.09.2019 to 19.03.2021.

Award Received:

- Guided a project titled “Railway track fault detecting system” which participated and received an appreciation award and certificate in DST-TI IICDC 2018 (Texas Instruments Innovation Challenge India Design Contest 2018)
- Guided a project titled “Women safety Device using IOT” which participated and received an appreciation award and certificate in DST-TI IICDC 2019 (Texas Instruments Innovation Challenge India Design Contest 2019)
- Received certificate of appreciation for the 'Idea Generation Challenge' conducted during the Azadi ka Amrit Mahotsav Iconic week from 10th- 16th January 2022