

## FACULTY PROFILE

1. Name : Dr.M.Sangeetha
2. Designation : Professor
3. Date of Joining : 15.07.2010
4. Nature of Association : Regular
5. Email : sangeetham@ksrct.ac.in



### 6. Academic Qualifications:

S.No.	Course	Institution	Board/ University	Percentage/CGP A & Year of Passing	Class obtained
1.	<b>Ph.D</b> (Information and communication Engineering)	K.S.Rangasamy College of Technology, Tiruchengode	Anna University, Chennai.	June 2017	Completed
2.	<b>M.E</b> (Computer Science & Engineering)	Kongu Engineering College, Perundurai	Anna University, Chennai	74% June 2005	First class
4.	<b>B.E.</b> (Computer Science & Engineering)	K.S.Rangasamy College of Technology, Tiruchengode	Periyar University, Salem	76% June 2003	First class
5.	<b>HSC</b>	Government Girls Higher Secondary School,Tiruchengode	State Board, Tamilnadu	81% March 1999	-
6.	<b>SSLC</b>	Government Higher Secondary School,Kozhikkalnatham	State Board, Tamilnadu	80% April 1997	-

### 7. Employment details with Experience:

S.No.	ORGANIZATION	DESIGNATION	PERIOD		YEAR OF EXPERIENCE
			FROM	TO	
1.	K.S.Rangasamy College of Technology, Tiruchengode	Professor	01/06/2018	Till date	6.10
		Assistant Professor	15/07/2010	31/05/2018	7.11
2.	Meenakshi Ramaswami Engineering College, Ariyalur	Assistant Professor	02/11/2009	30/06/2010	0.8
3.	Kongu Engineering College,Perundurai	Lecturer	13/06/2005	15/10/2009	4.4
<b>Total</b>					19.9 Years

**8.Title of Ph.D Thesis** : PROLONGING NETWORK LIFETIME AND OPTIMIZING ENERGY CONSUMPTION USING HYBRID CLUSTERING ALGORITHM IN WIRELESS SENSOR NETWORKS

## 9. List of Publications:

International Journals	
1.	Sangeetha, M & Nallusamy, C, “A Deep Learning Based Predictive Model For prognostication and Risk Assessment of Lung Cancer MAHSA International Journal of Engineering and Technology”, Vol.4,No.1,2024.
2.	Sangeetha M, Mohanraj V, Aravinth M, Ashok R, “Segmentation And Classification of Alzheimer’s Disease Using Deep Learning and Region Based Convolutional Neural Networks (RCNN)”, Journal of Data Acquisition and Processing, Vol. 38 (3) 2023, DOI:10.5281/zenodo.98549566
3.	Sangeetha M, Aravinth K, Gopika K, Krishnaraj B, “Deep Learning based Person Reidentification Using Deep Neural Network”, Journal of data acquisition and processing, Vol.38(3),2023.
4.	Sangeetha M, Gayathri Shree I S, Kanimozhi S, Sangavee P, “Medical Waste in Sewage Monitoring and Maintenance System Using IoT”, Eur. Chem. Bull, Vol.12(Special Issue, 4), pp.5958-5963,2023.
5.	Sangeetha M, “Blood donor searching android application”, International Journal of Health Sciences, Vol.6(S1), pp.13492 –13503,2022
6.	Sangeetha, M, “Prediction of Human Phycology Using Machine Learning Techniques”, International Research Journal of Modernization in Engineering Technology and Science, Vol.03, No.04, 2021
7.	Sangeetha, M, “Privacy Preserving Energy Trading Using Consortium Block chain”, International Research Journal of Modernization in Engineering Technology and Science, Vol.03, No.04,2021
8.	Sangeetha, M & Sabari, A, “Genetic optimization of hybrid clustering algorithm in mobile wireless sensor networks” Sensor Review, Vol.38, No.4, 2018.
9.	Sangeetha, M & Sabari, A, “Prolonging network lifetime and optimizing energy consumption using swarm optimization in mobile wireless sensor networks”, Sensor Review, Vol.38, No.4,2018.
10.	Sangeetha, M & Sabari, A, “Prolonging Network Lifetime and Optimizing Energy Consumption Using Particle Swarm Optimization for Mobile Wireless Sensor Networks”,Asian Journal of Research in social Sciences and humanities, Vol. 6,238-245, 2016.
11.	Sangeetha, M & Sabari, A, “A Review on Enhanced dynamic clustering in WSN”, International Journal of Computer, Electrical, Automation, Control and Information Engineering, Vol.9, pp.2067-2075,2016.
12.	Sangeetha, M & Sabari, A, “Particle Swarm Optimization: Essential Concepts, Applications and Variants in Wireless Sensor Networks”, Middle-East Journal of Scientific Research, pp.127-132, 2016.
13.	Sangeetha, M & Sabari, A, “A Novel Technique for Improving Cluster Head Lifetime in Mobile Wireless Sensor Network”, Asian Journal of Information Technology, Vol.15,pp.312-322,2016.
14.	Sangeetha, M & Sabari, A, “Energy Aware Zone-based Clustering Algorithm in WSNs”, Journal of Emerging Technologies and Innovative Research, Vol. 2, pp.1160-1164, 2015.
15.	Sangeetha, M & Sabari, A, “A Review: Comparative Study of Enhanced Hierarchical Clustering Protocols in WSN”, International Journal of Computer, Control, Quantum and Information Engineering/ World Academy of Science, Engineering and Technology, Vol. 8,No.8, pp.1473-1478,2014.
16.	M.Sangeetha, "A Distributed topology control technique for low interference And Energy Efficiency in Wireless Sensor Networks", Global Research Analysis, Vol.2, pp.112-113,2013.
17.	Sangeetha, M & Sabari, A, “A Survey of Key Management Technique for Secure and Reliable Data Transmission in MANET”, International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 3,pp. 22-27,2013.
National Conference	
1.	Dr.M.Sangeetha, “Privacy Preserving Energy Trading Using Consortium Blockchain”,National Level Conference Innovation in Engineering and Technology (NCIET’2021),Narasus’s Sarathy Institute of Technology, Salem, Tamilnadu,April-21
2.	M.Sangeetha, “Comparative Analysis of heterogeneity in Road Accident Data Using Data Mining Techniques”, National Conference on Emerging Trends in Engineering and Technology, Nandha College of Technology, Erode 2019.
3.	M.Sangeetha, “An Improved Deduplication Data Storage Model for Cloud using TPA Protocol”, 8 <sup>th</sup> National Conference on Advancements in Electrical Sciences, SNS College of Technology, Coimbatore,2018.
4.	M.Sangeetha, “WAP Based Tele Medicine for Healthcare with Data mining Support”, 2nd National Conference on "IT applications for Rural Development and Healthcare, Department of Science and Technology, Kongu Engineering College,Perundurai,2016

International Conference	
1.	Sangeetha, M & Nallusamy, C, “A Deep Learning Based Predictive Model For prognostication and Risk Assessment of Lung Cancer”, 4th MAHSA International Technology and Engineering Conference, 2024
2.	Sangeetha, M, “Hash Tag-Based Sentiment Analysis Using A Deep Learning Approach”, 10 <sup>th</sup> International Conference on Advanced Computing and Communication Systems (ICACCS), Coimbatore, India 2024.
3.	Sangeetha, M, “Analysis of Maternity and Child Health Care System Integrated with IoT and ML”, 10 <sup>th</sup> International Conference on Advanced Computing and Communication Systems (ICACCS), 2024
4.	Sangeetha, M “Securing Medical Records with Privacy- Preserving Storage in the Cloud Through Advanced Deep Encryption”, 2 <sup>nd</sup> International Conference on Artificial Intelligence and Machine Learning Application, 2024
5.	Sangeetha, M, “An AI Based Approach for Medicinal Plant Identification and Classification Using Deep CNN”, IEEE International Conference on Computing and Data Science (ICCDs), 2024
6.	Dr.M.Sangeetha, “Secure Text Transmission in Cloud Environment”, 6 <sup>th</sup> International Conference on Engineering and Technology-ICET 2020, Selvam College of Technology, Namakkal, March 2020.
7.	M.Sangeetha, “An Improved Deduplication Data Storage Model for Cloud Using TPA Protocol”, 8th National Conference on Advancements in Electrical Sciences, SNS College of Technology April, 2018.
8.	M.Sangeetha, “Particle Swarm Optimization, Essential Concepts, Applications and Variants in Wireless Sensor Networks”, 5 <sup>th</sup> International Conference on Frontiers of Computational Intelligence – ICFCI’16 , K.S.Rangasamy College of Technology, March 2016.
9.	M.Sangeetha, “Energy Aware Zone Based Clustering Algorithm in WSNs”, Proceedings of International Conference on Recent Trends in Engineering and Technology, Mount Zion college of Engineering and Technology, Pudukkottai, 2015.

#### 10. List of Workshops / Seminar / STTP/FDPs Organized:

S.No.	Title	Venue	Duration	Sponsoring Authority
1.	ATAL FDP on “Block Chain Technology with AI for Next Generation Computing”	K.S.Rangasamy College of Technology	30.10.2023-04.11.2023	AICTE ATAL Academy
2.	Linux-Workshop	K.S.Rangasamy College of Engineering	05.02.2019 to 06.02.2019	Red Hat Academy
3.	Spark(One Credit Course)	K.S.Rangasamy College of Technology	15.03.2019 to 17.03.2019	-
4.	Hadoop(One Credit Course)	K.S.Rangasamy College of Technology	06.10.2017 To 08.10.2017	-
5.	STTP under AQIS titled on “Block Chain and Artificial Intelligence- Towards the Next Big Technological Revolution”	K.S.Rangasamy College of Technology	Slot 1: 16.11.2020 to 21.11.2020 , Slot 2: 30.11.2020 to 05.12.2020 , Slot 3: 14.12.2020 to 19.12.2020	AICTE
6.	Tech Web Series_3D Animation	K.S.Rangasamy College of Technology	28.06.2021 to 02.07.2021	-

**11.List of Workshops / Seminar / STTB/FDPs Attended:**

S.N o.	Title	Venue	Duration	Sponsoring Authority
1.	Generative AI: Innovations in Creativity, Industry Applications and Ethical Challenges(ATAL FDP)	Sri Shanmugha college of engineering and technology	16.12.2024 to 21.12.2024	AICTE
2.	Design Thinking Approach and Innovative Practices in Biomedical Additive Manufacturing (ATAL- FDP)	VivekanandhaCollege of Engineering for Women	25.11.2024-30.11.2024	AICTE
3.	NPTEL-AICTE - FDP - Demystifying Networking	NPTEL	July-Aug 2023	-
4.	Gen AI -The AI Road Show	K.S.R.College of Engineering	26.03.2024	-
5.	AI and Machine Learning for Chip Design	AICTE-ATAL FDP,Muthayammal Engineering College	11.12.2023-16.12.2023	AICTE
6.	Introduction to Internet of Things	NPTEL- AICTE - FDP	Jan-Apr 2024	-
7.	PALS-VLAB FDP (Online)	PALS,IIT,Chennai(Online)	24.08.2020 to 28.08.2020	-
8.	Emerging Trends & Technologies in Data Science	Department of Computer Science and Engineering, GMR Institute of Technology, Rajam, Andhra Pradesh(Online)	24.08.2020 to 28.08.2020	-
9.	Emerging Trends in Information Technology (Online)	Karpagam College of Engineering (Online)	23.06.2020 to 27.06.2020	-
10.	Building Web Applications with MERN Stack Technologies(Online)	Kongu Engineering College ,Perundurai(Online)	15.06.2020 to 19.06.2020	-
11.	The Future of recruitment	Sri Eshwar College of Engineering, Coimbatore(Online)	23.05.2020	-
12.	AI & Machine Learning	Sri Eshwar College of Engineering, Coimbatore(Online)	14.05.2020	-
13.	FDP on “AI based Proctoring in Next Generation Education”	Sri Eshwar College of Engineering(Online)	23.05.2020	-
14.	Artificial Intelligence and Machine Learning with chat bot organized by	Sri Eshwar College of Engineering(Online)	22.05.2020	-
15.	Design The Thinking	Sri Eshwar College of Engineering(Online)	22.05.2020	-
16.	Decoding Data Science For Decision Makers	Sri Eshwar College of Engineering(Online)	19.05.2020	-
17.	Demystify the Cloud	Sri Eshwar College of Engineering	17.05. 2020	-
18.	Robotic Process Automation (RPA) & AI	Sri Eshwar College of Engineering(Online)	15.05 2020	-
19.	Cyber Security	Sri Eshwar College of Engineering, Coimbatore(Online)	15.05.2020	-

20.	Data Science for Engineers	Sri Eshwar College of Engineering, Coimbatore(Online)	13.05.2020	-
21.	J Gate _An Electronic Gateway for Research	K.S.Rangasamy College of Technology,Tiruchengode	10.07.2019	-
22.	R Programming	K.S.Rangasamy College of Technology,Tiruchengode	09.11.2019	
23.	FDP on Data Science for Engineers(NPTEL)	K.S.Rangasamy College of Technology,Tiruchengode (Online)	Jul-Sep 2019	-
24.	NBA Accreditation (ICT01)	K.S.Rangasamy College of Technology,Tiruchengode	22.04.2019 to 26.04.2019	National Institute of Technical Teachers' Training and Research (NITTTR), Kolkata
25.	BigData-Spark (One credit)	K.S.Rangasamy College of Technology, Tiruchengode	15.03.2019 to 17.03.2019	-
26.	Big data Analytics and Machine Learning	K.S.Rangasamy College of Technology, Tiruchengode	04.06.2018 to 09.06.2018	AICTE
27.	Big Data Engineering(One Credit Course)	K.S.Rangasamy College of Technology, Tiruchengode	06.10.2017 To 08.10.2017	-
28.	Networking Simultion using Qualnet Software	DELLSOFT Technologies, Department of IT,KSRICT	28.09.2017	-
29.	Improving Your API Scores based on UGC Regulations	Department Of Library, K.S.Rangasamy College of Technology	28.08.2017	-
30.	Bigdata Analytics with Apache Spark	K.S.R College of Arts and Science for Women	08.09.2017	ICMR
31.	Writing Research Papers,PredatoryJournals, CopyRight,Plagiarism, Citation Analysis and Impact factor	KSRICT Library & Readers Club	19.11.2016	-
32.	Introduction to Design of Algorithm	K.S.Rangasamy College of Technology, Tiruchengode	27.04.2015 To 30.05.2015	Indian Institute Of Technology, Kharagpur
33.	Wireless Protcol Design Using NS2	K.S.R Institute For Engineering And Technology, Tiruchengode	22.09.2014	-
34.	Step 2 Research(e-seminar)	K.S.Rangasamy College of Technology, Tiruchengode	19.09.2014 to 20.09.2014	ISTE and CSI
35.	Research Issues in Mobile Ab-Hoc and Sensor Network Security	Kongu Engineering College,Perundurai, Erode	06.05.2013 To 19.05.2013	AICTE

36.	Recent Advance in Pattern Recognition-Artificial Intelligence Models and Analysis in Biometrics	K.S.Rangasamy College of Technology, Tiruchengode	25.03.2013 to 06.04.2013	AICTE
37.	Research Issues in Mobile Ad-Hoc and Sensor Network Security	Kongu Engineering College, Perundurai	06.05.2013 to 19.05.2013	AICTE
38.	Research Issues in Image Processing	Kongu Engineering College, Perundurai	20.06.2008 To 21.06.2008	CSIR
39.	Grid Based Data Mining and its Applications	Kongu Engineering College, Perundurai	29.07.2008 To 30.07.2008	CSIR
40.	Multimedia and e-Learning	Kongu Engineering College, Perundurai	23.03.2007 to 27.03.2007	—
41.	Java 2 MICRO Edition (J2ME)	Kongu Engineering College, Perundurai	24.09.2007 To 07.10.2007	AICTE
42.	Software Testing	Kongu Engineering College, Perundurai	19.05.2006 To 20.05.2006	AICTE
43.	Awareness Programme on LINUX	Kongu Engineering College, Perundurai	10.09.2005 To 11.09.2005	—

## 12.Details of Membership In Professional Societies:

S. No.	Name of Professional Body	Grade of Membership	Membership No.
1	ISTE	Life Member	<b>Life Member: LM 92147</b>

## 13. Recognized Supervisor for Ph.d / M.S. Programme :

**Department:** Faculty of Information and Communication Engineering

**University :** Anna University, Chennai

**Ref. No. : 2740106**

## Research Scholars Completed Ph.D:

S. No.	Name of Scholar	Area of Research	Title of Thesis	Date/Month/Year		University
				Registration	Completion	
1.	Mr.R.Venkatesan	Deep Learning	Cognitive Deep learning Approaches for Analyzing Multi Model Sentiments in E-Commerce and S-Commerce	31.12.2018	07.05.2024	Anna University Chennai

### Research Scholars Pursuing Ph.D:

S.No	Name of the supervisor, College, place	Name of the Scholar, College, place	Date of the Registration
1.	<b>Dr.M.Sangeetha (3340050),</b> Department of IT K S Rangasamy College of Technology	V.Gopinath Department of CSE, KSR Institute for Engineering and Technology, Tiruchengode	12.07.2023
2.		V.Prakasham Department of CSE, KSR Institute for Engineering and Technology, Tiruchengode	12.07.2023
3.		R.Deebika Department of CSE, KSR Institute for Engineering and Technology, Tiruchengode	12.07.2023
4.		S.Monika Department of CSE , Malla Reddy University, Hyderabad	12.07.2023
5.		K.Dineshkumar Department of CSE, K.S.Rangasamy College of Technology, Tiruchengode	20.12.2023
6.		K.Sivapriya Department of CSE , <a href="#">Vivekanandha College of Engineering for Women</a> , Tiruchengode	21.12.2023
7.		P.Yogashree Department of CSE , <a href="#">Vivekanandha College of Engineering for Women</a> , Tiruchengode	21.12.2023
8.		K.Soniya Lakshmi Department of CSE , <a href="#">Vivekanandha College of Engineering for Women</a> , Tiruchengode	21.12.2023

#### 14. Achievements

1. Achieved Elite+Silver award in NPTEL – Outcome Based Education in the year 2024-2025
2. NPTEL Best Mentor 2023-2024
3. Achieved Elite+Silver award in NPTEL -Internet of Things in the year 2023-2024
4. Achieved Elite award in NPTEL- Data Science for Engineers course in the year 2019-2020
5. Achieved Elite award in NPTEL- Computer Networks and Internet Protocol course in the year 2018-2019
6. Produced 100% result in End Semester Examination in Computer Communication Networks in the year of 2015-2016.
7. Produced 100% result in End Semester Examination in Object Oriented Analysis and Design in the year 2014-2015.
8. Produced 100% result in End Semester Examination in Professional Ethics in the year 2014-2015.
9. Produced 100% result in End Semester Examination in Computer Architecture in the year 2014-2015.

**15. PATENT PUBLISHED:**

Sl.No	Name of the Applicant(s)/Assignee Name	Title	Application No.& Patent filed date	Current status
1.	Dr.J.Nithya Dr.R.Poonkuzhali Dr.M.Sangeetha Dr.C.Nallusamy R.Arunkumar	System and Method for Cattle Identification Using Biometric Muzzle Pattern Recognition through Deep Learning	202441093940 & 30.11.2024	Published
2.	Dr.R.Poonkuzhali Dr.J.Nithya Dr.M.Sangeetha Dr.C.Nallusamy R.Arunkumar	Smart Patient Monitoring and Management system: Integrated IoT and RFID for Enhanced Healthcare Solutions	202441093987 & 30.11.2024	Published
3.	Dr.M.Sangeetha	An IoT based System to Monitor oil-Immersed Transformers and a Method Thereof	202011056488 A & 01/01/2021	Published
4.	Dr.M.Sangeetha	IoT based Smart System to Monitor and Control Electrical Appliances	202141046121 A & 22/10/2021	Published

**16. Involvement in Department Activities:**

1. NAAC-Overall Coordinator of IT Department
2. NBA – Criteria 5 Coordinator of IT Department
3. Department Module Coordinator
4. Department Academic Review Coordinator
5. Department Database (IQAC)Coordinator
6. Department Website Coordinator
7. Department PALS Coordinator
8. Department Discipline Incharge
9. Class Advisor