



TAGORE ENGINEERING COLLEGE

(A Member of Tagore Group of Institutions Chennai)

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai

ACCREDITED BY IQAC-NAAC WITH 'A' GRADE

FACULTY PROFILE

PERSONAL DETAILS			
Name & Qualification		Mrs.K.Kumuthapriya ME(Applied Electronics)	
Designation		Sr.Assistant professor	
Department		Electronics and Communication Engineering	
Total Teaching Experience		21 years	
Total Research Experience		Nil	
Total Industry Experience		6 Months	
Area of Specialization		Applied Electronics	
AICTE Faculty ID		4127214	
Email ID		kkumuthapriya@tagore-engg.ac.in	
			
EDUCATIONAL DETAILS			
Degree	Branch/ Specialization	University	Year
UG	B.E/Electronics and Communication Engineering	MADRAS University	1999
PG	M.E/Applied Electronics	MADRAS University	2000
Ph.D	---	---	----
RESEARCH / PUBLICATION DETAILS			
Publications in Journal			
1. “Memristor -The Future of Artificial Intelligence ”, Published in aInternational Journal of Scientific Engineering and Research Issue 04 ,Vol. 5, April 2014			

2. “Design and Implementation of Auto-tunable Index for Memory Mapping in FPGA using MEMRISTOR”, Published in a International Journal on Applied Engineering and research ,ISSN0973-4562 Vol.10 No.42(2015).
3. R.Porselvi and Ms.K.Kumuthapriya, ECE department published a paper titled," Automated micro aneurysm classification using deep convolutional spike neural networks" in Springer on 8th June 2024 Wireless Networks.

Conferences Proceeding

- 1.Kumuthapriya.K**, “Role of visual cryptography in Digital Domain challenges and solution ”, Proc International Conference on ,Recent Trends in Computing and Communication Engineering (ICRTCCE-2023) held on 17thmarch, 2023 at Savitha Institute of Medical and Technical Science , Chennai. , 2023
- 2.Kumuthapriya.K**, “ A Comprehensive Review on Role of Optical Fibers in Network Evolution- Challenges and Solution”, Proc . 7th International Conference on Recent Advances in Science , Engineering Management .(ICRASEM-2022) held on 26th January,2023 at Tagore Engineering College, Chennai, 2023
- 3.Kumuthapriya.K**, “Design of high Efficient landmark predication using Deep neural densenet”, Proc .7th International Conference on Recent Advances in Science , Engineering Management .(ICRASEM-2022) held on 26th January,2023 at Tagore Engineering College, Chennai. pp.65, 2023
- 4.Kumuthapriya.K**,“Logical Attack Detection for securing Fpga with self -Repairing systems”, Proc .7th International Conference on Recent Advances in Science , Engineering Management .(ICRASEM-2022) held on 26th January,2023 at Tagore Engineering College, Chennai. pp.66, 2023
- 5.Kumuthapriya.K**,“Innovative Technology for smart Road connecctivity”, Proc .7th International Conference on Recent Advances in Science , Engineering Management .(ICRASEM-2022) held on 26th January,2023 at Tagore Engineering College, Chennai. pp.68, 2023
- 6.Kumuthapriya.K, Pradeepa.V**, “Smart Delivery of Product Using Self Driving Quadcopter”, Proc .AICTE Sponsored International E-Conference on ,Electrical, Communication& Computing Engineering (ICECC-2020) held on 20thand 21stAugust,2020 at Tagore Engineering College, Chennai. pp.113, 2020
- 7.Kumuthapriya.k** ,Thamizharasi.V,G.Senthilraja,“Sinusoidal Model and MFCC Information for Speaker Recognition”, Proc 3rd International conference on Electrical, Communication And Computing (ICECC-2019) ,12th and 13th March 2019 held at Tagore Engineering College, Chennai
- 8.Kumuthapriya.k, PAVITHRA. G, SARANYA. R**,“ Brain Tumor Segmentation Using Convolutional Neural Networks In Mri Images”, Proc 3rd International conference on Electrical, Communication And Computing (ICECC-2019) ,12th and 13th March 2019 held at Tagore Engineering College, Chennai.

9.Kumuthapriya.k ,Vijaykrishnan.G,“ Smart banking machine cash monitoring with on time security surveillance system using Universal Object Interaction”, Proc 3rd International conference on Electrical, Communication And Computing (ICECC-2019) ,12th and 13th March 2019 held at Tagore Engineering College, Chennai.

10.Kumuthapriya.k , “ Memristor Based Modified Neural Logic Blocks Using Nand Gate”, Proc 3rd International Conference On Electrical, Communication And Computing (ICECC-2019) ,12th and 13th March 2019 held at Tagore Engineering College, Chennai.

11.Kumuthapriya.K, “Memristor Spice Model and 4x4 Crossbar Simulation implemented in Neuromorphiccircuit ”, Proc. National Conference on Recent Advances in science, Engineering &Management (NCRASEM’18) held at Tagore Engineering College, Chennai,2018.

12.KumuthaPriya.K, Mariyammal.V.&Dr.Prakash.S “Desigin of Non-volatile lookup Table using Memristor For field programmable Gate Array”, Proc. International Conference on Electrical, Computing & Communication (ICECC’17) held at Tagore Engineering College, Chennai,pp. 34, 2017.

13.KumuthaPriya.K, Senthialraja.G “Statistcal Feature Evaluation And Vq/Gmm for classification of stressed speech ”, Proc. International Conference on Electrical, Computing & Communication (ICECC’17) held at Tagore Engineering College, Chennai,pp. 34, 2017.

14.Kumuthapriya.K.Poovizhiselvi, A.Sakthi, P.Sathyapriya, “[Design and Implementation of Digital Predictive Controller Architecture using NLB in FPGA Systems](#)”, Proc. National Conference on Recent Advances in science, Engineering & Management (NCRASEM’15) held at Tagore Engineering College, Chennai, 2015.

15.Kumudhapriya.K,Srinidhi.S, B.Saranya, K.Usha, Dr.S.Prakash, “[Design and Implementation of Auto-tunable Index for Memory Mapping in FPGA using MEMRISTOR](#)”, Proc. National Conference on Recent Advances in science, Engineering & Management (NCRASEM’15) held at Tagore Engineering College, Chennai, 2015

16.KumuthaPriya K. and Jenila L. “[Memristor Based Neural Logic Block for Cryptographic Application](#) ”, Proc. International Conference on Electrical, Computing & Communication (ICECC’14) held at Tagore Engineering College, Chennai,pp. 93, 2014.

17.KumuthaPriyaK.Kavinmathi.L, Lavanya.K, Gayathri.C “[Memristor -The Future of Artificial Intelligence](#) ”, Proc. International Conference on Electrical, Computing & Communication (ICECC’14) held at Tagore Engineering College, Chennai,pp.113, 2014.

18.Porselvi.R, Surekha.N and Kumuthapriya.K, “An Efficient High Speed Wallace Tree Multiplier”, Proc. International Conference on Information Communication & Embedded Systems (ICICES’13) organized by the Department of PG Students in Engineering at S.A.Engineering College, Chennai,pp.84, 2013.

19.K.Kumuthapriya, “An IHS Based Fusion for Color Distortion Reduction and Vegetation Enhancement in IKONOS Imagery”, Proc. National Conference on Signal Processing and Communications Sponsored by AICTE held at St.Peter’s College of Engineering & Technology, Chennai

20.K.Kumuthapriya, “Solar-Powered WSN Framework for Aquatic Environmental Monitoring”, Proc. National Conference on Signal Processing and Communications Sponsored by AICTE held at St.Peter’s College of Engineering & Technology, Chennai,pp.147, 2012.

21.Kumudhapriya.K, “Memory – Based Realization of FIR Digital Filter using OMS Scheme”, Proc. National Conference on Communication and Informatics (NCCT’12) held at Shree MotilalKanhaiyalalFomra Institute of Technology, Chennai

22.Priya R and **Kumuthapriya K**, “Long Distance Real Time Echo Cancellation and Double Speech Detection”, Proc. International Conference on Electronics & Communication Engineering 2012 organised by Sri Lakshmi Ammal Engineering College, Chennai.

23.Kumuthapriya K, Proc in National Multiconference on Innovative Computing Technology’11 Advanced Cryptography using coupled congruential pseudorandom Generator at Tagore Engineering College,pp.296-299, 2011.

24.Kumuthapriya K, “HVDC and facts Mudpack Applications”, Proc International conference on smartTechnology at Vel Tech pp.540-542, 2011.

25.Kumuthapriya K, “Wireless Smoke Detector”, Proc. National conference at Bannari Amman Engineering College, TamilNadu.

26. Kumuthapriya K,“ Recognize Of Stressed Speech By GMM”, Proc in National conference on Advanced Techniques in Instrumentation Control and Communication Engineering,Sponsored by DRDO,BRNS,CSIR held at St.Peter’s College of Engineering & Technology, Chennai pp.44-49, 2008.

27.Sheela, D **.KumuthaPriya, K.**,Manju, M. and Rekha, R.K. “All Optical Switches using Dye Doped Polymers”, Proc. National Conf. On Recent Trends in Biomedical and Communication Technologies, Dhanalakshmi College of Engineering, Chennai, in association with Biomedical Engineering Society of India,pp.44-48,2006.

Books / Chapters Published

NIL

Fund Received

NIL

Patent Applied / Published/Granted

1. **Mrs..K.KumuthaPriya** has filed a patent on“ **Monitoring of Body Temperature with alert through IOT without contact to Human Body during COVID situations**” and published on 25.02.2022

2. Mrs.K.Kumudhapriya, has filed a patent on “Priority generator and the method there of by implementing Artificial Intelligence for diagnosing patients in hospitals “ and published on 25.03.2022. 3. Mrs.K.Kumuthapriya filed a patent on Development of monitoring Devices for cardiovascular diseases using machine learning techniques,” and published on 06.01.2023. 4.Mrs.K.Kumuthapriya has certificate of DESIGN a patent on SMART PRECISION SEEDER FOR AGRICULTURE APPLICATION with the Design number 405997-001,” and published on 30.01.2024		
CITATIONS	35	
H-INDEX		
RESEARCH GUIDANCE DETAILS		
Sl.No	University	Supervisor ID / Reference
1	Anna University, Chennai	
2	Number of UG Scholars Guided	40 batches
3	Number of PGScholars Guided	16
4	Number of Ph.D. Scholars Guided	
5	Number of Ph.D. Scholars Pursuing	
PROFESSIONAL SOCIETY MEMBERSHIP DETAILS		
Sl.No	Professional Society Name	Member ID
1	ISTE	LM31437
2	IETE	M200017
3	IAENG	151886
4	ISEC	