NameoftheFaculty:	**Dr. A.ANITHA**
Designation:	ASSOCIATE PROFESSOR
Department:	ElectronicsandCommunicationEngineering
DateofJoining :	05.04.2013
E-MailAddress :	aanitha@gct.ac.in
Qualification:	M.E.,Ph.D
Specialization:	Medical Electronics
ProfessionalExperience:	17 Years Teaching, 2 years Industry
Membership in professional body:	IEI Associate Member
AICTE Faculty ID :	1-2187390999
Anna University Faculty ID:	7177095

RESPONSIBILITES UNDERTAKEN:

- Timetable Co-ordinator
- UG Faculty Advisor
- Department NBA Co-ordinator
- Antri-ragging Committee Incharge
- EDC Cell Department Co-ordinator
- i-STEM Department Co-ordinator
- Girls Hostel Deputy warden
- PG Panel Incharge

WORKSHOP AND FDP ATTENDED:

S.No	Type of programme	Duration	Venue
1	Workshop on NPTEL	09.04.13	GCT
2	FDP on Pedagogy and Professional Communication	22.05.13 to 28.05.13	GCT
3	TEQIP Phase-II sponsored FDP on Strategies for Effective Student Teacher Interaction	29.05.13 04.06.13	GCT
4	FDP on Signals and Systems	15.07.13 to 19.07.13	Anna University, Chennai
5	FDP on Data Mining	11.11.13 to 17.11.13	Coimbatore Institute of Technology
6	AICTE sponsored FDP on Research Issues in Named Data Networking	17.6.2013 to 30.6.2013	GCT
7	Workshop on Quality Improvement Cell	23.01.14	Quality Improvement Cell, GCT.
8	Workshop on VLSI Design using Cadence Tools	10.02.14 to 12.02.14	ECE Seminar Hall
9	Workshop on Art of writing and Publishing effective research paper in journals and conferences	13.08.16	KonguEngg. College
10	Conference by Confederation of Indian Industries	2.12.16 and 3.12.16	Hotel Radisson Blu
11	National Workshop on Image Processing for biomedical applications	16.12.16 17.12.16	Amrita University
12	51st Annual convention by Computer society of India	23.1.17 to 25.1.17	Hotel Le Meridian
13	Preconvention Tutorial for 51st Annual convention by Computer society of India	22.1.17	PSG College of Technology
14	TEQIP sponsored Faculty Development Program on Cybersecurity	13.3.17 to 19.3.17	GCT
15	AICTE sponsored FDP on Smart Power Grid Technologies	17.11.17 to 30.11.17	GCT
16	TEQIP – III Sponsored One Week Faculty	22.7.19 to	GCT

	Development Programme on Advanced Pedagogy, Sponsored Research, IPR and Entrepreneurship	26.7.19	
17	TEQIP – III Sponsored One Week Faculty Development Programme on Multidisciplinary Innovations in Engineering, and Science for Sustainable Development	5.8.19 to 9.8.2019	GCT
18	ATAL Acdemy Online FDP on Internet of Things (IoT) at GCT, Coimbatore	7.12.2020 to 11.12.2020.	Online
19	ATAL Acdemy Online FDP on Precise Health Technology at Thiagarajar College of Engineering	14.12.2020 to 18.12.2020.	Online
20	Industrial Training on "Communication and Networking Technologies" organized by BSNL	30.6.2020-20.7.2020	Online
21	Webinar on "Design and Implementation of Curriculum as per National Education Policy 2020"	29.09.2021 & 01.10.2021 online	IQAC –Teaching Learning and Evaluation, GCT
22	TEQIP III Sponsored Product Development Workshop on Soap Making Processes	10.3.2021	GCT
23	Webinar on "GLUE GRANT – a Game changer for Coimbatore"	4.5.2022 Online Mode.	IQAC –Research Innovations and Extension Team, GCT
24	NaanMudalvan Training of Trainer's program for Augmented Reality, Virtual Reality and Metaverse development	19.9.2022 to 30.9.2022	PSG Tech organized by IngageTechnologies Pvt. Ltd.
25	Tamilnadu State Government Sponsored Two Weeks Faculty Development Programme on "Next Generation Cyber security though Blockchain"	19.9.22 to 23.9.22 Online	GCE, Tirunelveli
26	One Week online Faculty Development Programme on "Deep Learning and AI based healthcare systems" by CIT, Coimbatore	18.12.2023 to 24.12.2023	CIT, Coimbatore
27	Government Officer Training – Advanced in "Augmented and Virtual Reality" under the "FutureSkills PRIME" Programme in collaboration	15.10.2024 to 28.10.24	CDAC Pune

	with CDAC Pune		
28	AICTE Training And Learning (ATAL) Academy Faculty Development Program on "Impact of Inverter-Based Resources in Power System"	03/02/2025 to 08/02/2025	ACGCET, Karaikudi
29	Attended Three day workshop on" CADENCE SEMI-CUSTOM AND FULL-CUSTOM IC DESIGN" Organized by Department of Electronics and Communication Engineering.	09.09.2024 – 11.09.2024	GCT

ORGANIZED:

1	TEQIP sponsored **National Conference** on Advanced Computing and Communication Systems(NCACCS'2014)	27.03.14	GCT
2	TEQIP Sponsored National Workshop on IoT	15.2.17 to 17.2.17	GCT
3	TEQIP and Robert Bosch Sponsored **Five Days faculty Development Program** on Automotive Electronics	3.12.18 to 5.12.18	GCT with Robert Bosch
4	**Two Days Workshop** on MATLAB – For students under twinning activity	1.8.19 & 2.8.19	GCT
5	Tamilnadu State Government Sponsored Two Weeks Faculty Development Programme on "Research Challenges in Signal and Image Processing"	17.2.2020 to 1.3.2020	TFC, GCT
6	Tamilnadu State Government Sponsored Five Days faculty Development Programme on "Recent Trends in Communication and Computing with 5G"	13.12.2021 to 17.12.2021	GCT
7	Tamilnadu State Government Sponsored National Conference on Advanced Computing and Communication Systems (NCACCS – 2025)	27.03.2025	GCT

SPECIAL LECTURES DELIVERED:

S. No	Topic	DATE	Venue
1	"Webinar on Deep learning"	12.05.2021 Online	M.A.M College of Engineering, **Trichy**

2	Role of embedded systems in automotive electronics and their applications",	10.01.2025	Government College of Technology-FTC-Coimbatore

CONFERENCE PUBLICATIONS:

1. P. Vanmathi, A.Anitha "Systolic fast Reconfigurable architecture for image processing applications", Proceedings of the National Conference on Emerging Trends in VLSI, signal processing, communications (NCETVC 14), on 24th January 2014 at United Institute of Technology.

2. D.Vinodhini, A.Anitha "Optimized Image Retrieval for Biomedical Images" , Proceedings of the International Conference on intelligent Engineering systems 2IES-14, 3rd April 2014 at Easa College of Engineering and Technology.

3. P. Vanmathi, A.Anitha "Implementation of Systolic fast Reconfigurable architecture for image processing applications" , Proceedings of the International Conference on Emerging trends in electronics and communication (ICETEC 14) , on 14th March 2014 at Maria College of Engineering and Technology., pp- 74-82.

4. A.Abirami, A.Anitha, "Retinal Image Analysis using instantaneous amplitude and frequency components", Proceedings of the National Conference on Advanced Computing and Communication Systems (NCACCS'15) on 16.4.2015 at Government College of Technology, Coimbatore.
5. K. Kumaran, A.Anitha, "LUT optimization using Combined DA-OBC Techniques for FIR Design", 3rd National Conference on Electronics and Information Processing – INNOVA'15, Easa College of Engg. And Technology.
6. A.Anitha, "Vessel Segmentation of retinal images by iterative method", National Conference on Alternate energy technologies on 24.3.2017 at Government College of Technology, Coimbatore. NCAET'17.
7. A.Anitha, "Identification of abnormal retina by vessel and lesion separation using Morphological component analysis algorithm", National Conference on Alternate energy technologies on 24.3.2017 at Government College of Technology, Coimbatore. NCAET'17.
8. A.Anitha, "Diagnosis of retinal images by local binary pattern", National Conference on Alternate energy technologies on 24.3.2017 at Government College of Technology, Coimbatore. NCAET'17.
9. A.Anitha, "Red lesion Detection in retinal fundus images", National Conference on Alternate energy technologies on 24.3.2017 at Government College of Technology, Coimbatore. NCAET'17.

10. A.Anitha, “Score Fusion of SURF descriptors for detecting diabetic retinopathy using wavelet transform”, National Conference on Alternate energy technologies on 24.3.2017 at Government College of Technology, Coimbatore. NCAET’17.
11. A.Anitha, “Brain Tumor classification and segmentation of MRI image using fuzzy systems and artificial neural Network”, National Conference on Big Data and Machine Learning in Biomedical and Health Informatics: Contemporary uses and Prospective Challenges” on 12.9.2019 and 13.9.2019 at Karpagam Academy of Higher Education, Coimbatore.
12. A.Anitha, “Implementation of Distributed Arithmetic based Sum of Products”, International Conference on Advanced Computing and Communication Systems on 15.3.2019 and 16.3.2019 at Sri Eshwar College of Engineering, Coimbatore. ICACCS’19.
13. A.Anitha, “Statistical based feature extraction for Diabetic Retinopathy Detection”, International Conference on Recent Trends in Engineering Technology and Management held on 29.3.2019 and 30.3.2019 at Coimbatore Institute of Technology.
14. A.Anitha, “Implementation of Viterbi Decoder Architecture Based on Code rates”, International Conference on Advances and Developments in Electrical and Electronics Engineering on 6.2.2020 and 7.2.2020 at Karpagam College of Engineering, Coimbatore. ICADEE 2K20.
15. A.Anitha, “Implementation of delayed BLMS adaptive filter based on vedic multiplier”, International Conference on Electrical Sciences on 20.2.2020 and 21.2.2020 at SNS College of Technology in association with AIMST University, Malaysia ICES2020.
16. A.Anitha, “Optic Disc and Cup segmentation methods for Glaucoma Detection with fully convolution neural network”, International Conference on Electrical Sciences on 20.2.2020 and 21.2.2020 at SNS College of Technology in association with AIMST University, Malaysia ICES2020.
17. A.Anitha, “Integral Stochastic Computation based on FSM and Neural network implementation”, International Conference on Electrical Sciences on 20.2.2020 and 21.2.2020 at SNS College of Technology in association with AIMST University, Malaysia ICES2020.
18. A. Anitha, “A computer Aided Diagnosis System For Lung Cancer Detection Using Neural Network”, International conference on Emerging Trends in Signals Systems and Information on 28-05-2021 at Nehru Engineering College, Chennai.
19. A. Anitha, “Effective Architecture of 1DMedian Filter for De-Noising Using Modified Ladner and Fischer Adder, 12th International Conference on Science and Innovative Engineering on 05-06-2021 at Jawahar Engineering College, Chennai.
20. Vikash C.K and Dr.A. Anitha, “Implementation of Modified Dual-Loop Phase -Locked Loop”, 6th National Conference on Advanced Computing and Communication Systems on 27-03-2025 at Government College of Technology, Coimbatore.
21. Thanishkumar.M,Thirumalai V and Dr.A. Anitha**,** **“**Advancements in Meta’s AR/VR Development Framework”, 6th National Conference on Advanced Computing and Communication Systems on 27-03-2025 at Government College of Technology, Coimbatore.

BEST PAPER AWARD:

1. Ranjitha, A.Anitha, "Diabetic retinopathy detection Using bag of words and Convolution neural network", 10th National Conference On Signal Processing, Communications & VLSI Design. (NCSCV'18) on 6th and 7th April 2018 at Anna University Regional Campus, Coimbatore.
2. Thanishkumar.M,Thirumalai V and Dr.A. Anitha**, "**Advancements in Meta's AR/VR Development Framework", 6th National Conference on Advanced Computing and Communication Systems on 27-03-2025 at Government College of Technology, Coimbatore.

JOURNAL PUBLICATIONS:

1. Anitha and Umamaheswari, "Diabetic Retinopathy Detection Using Local Ternary Pattern", International Journal of Biomedical Engineering and Technology, 34(4), pp.334-353, January 2021. DOI: 10.1504/IJBET.2020.112421
2. Thendral and Anitha, "Analysis of reconfigurable approximate carry look ahead adder(CLA) using modified booth multiplier", International Journal of Innovation in Engineering Research & Management Vol.05,Issue 02, April 2018 (Special Issue II), ISSN. 2348-4918.
3. Mohanapriya SM and Anitha A, "Implementation of delayed BLMS adaptive filter based on vedic multiplier", International Research Journal on Advanced Science Hub- Special issue on ICES 2020", e-ISSN No. 2582-4379.
4. Premalatha P and Anitha A, "Optic Disc and Cup segmentation methods for Glaucoma Detection with fully convolution neural network", International Research Journal on Advanced Science Hub- Special issue on ICES 2020", e-ISSN No. 2582-4379.

PATENTS :

1. Application No. 201941043053 titled 'Wireless Listening Device' Filed, Dated 23rd October 2019.