

## **FACULTY PROFILE**

1. **Name** : Dr.M.Tamilarasi  
2. **Designation** : Associate Professor  
3. **Date of Joining** : 01.03.2021  
4. **Nature of Association** : Regular  
5. **Email** : tamilarasi@ksrct.ac.in



### 6. Academic Qualifications:

S.No.	Course	Board/ University	Year of Passing	Class obtained
1.	<b>Ph.D</b> (Information and communication Engineering)	Anna University, Chennai.	August 2015	-
2.	<b>M.E</b> (Computer Science & Engineering)	Anna University, Chennai	June 2008	First class with Distinction
4.	<b>B.Tech</b> (Information Technology)	Anna University, Chennai	June 2005	First class with Distinction
5.	<b>HSC</b>	Matric	March 2001	First class with Distinction
6.	<b>SSLC</b>	Matric	April 1999	First class with Distinction

### 7. Employment details with Experience:

S.No.	ORGANIZATION	DESIGNATION	PERIOD		YEAR OF EXPERIENCE
			FROM	TO	
1.	K.S.Rangasamy College of Technology	Associate Professor	March 2021	Till date	3.3
2.	Vivekanandha College of Engineering for Women	Associate Professor	May 2018	Nov 2021	2.6
3.	K.S.R. College of Engineering	Assistant Professor	June 2008	May 2017	9
4.	Vivekanandha College of Engineering for Women	Lecturer	December 2005	August 2006	0.8
<b>Total</b>					<b>15.5 Years</b>

**8. Title of Ph.D Thesis :** Automated Multi-Scale Analysis System for Non-Proliferative Diabetic Retinopathy Diagnosis

**9. List of Publications:**

<b>International Journals</b>	
1.	Sowmiya E, Tamilarasi M, “Advancements in Mango Leaf Disease Detection: A Comprehensive Survey of Emerging Techniques”,European Chemical Bulletin, 2023.
2.	Tamilarasi M, Karthikeyan S, Roopanraj P, Muthukumar S,“Livestock Management Using Digital Technology”,Journal of Population Therapeutics & Clinical Pharmacology, 2023. DOI: 10.47750/jptcp.2023.30.07.001
3.	Tamilarasi M, Kanimozhi P, Gowrishree B, Kavinaya V, “An Intelligent Third-Eye for visually impaired person using Deep learning Algorithm”,European Chemical Bulletin, 2023. DOI: 10.31838/ecb/2023.12.s1.164
4.	Tamilarasi M, Karthick R, Sanjeev R, Sasidharan S, ”Intrusion detection in healthcare domain using machine learning”,International Journal of Health Sciences, 2022.
5.	Tamilarasi M, Abarna D , Abirami R & Karishma K , “A Smart Walking Assistance for Visually Impaired People”, International Journal of Scientific & Technology Research, 2020.
6.	Tamilarasi M, Amutha S, Chandramuki G,Dharani K V & Gomathy B, “Business Application for Direct Marketing of Agricultural Products”, International Journal of Scientific & Technology Research, 2020.
7.	Tamilarasi M, Kavipriya R & Ashokkumar L, “Optimal Path Planning for Node Localization using BAT and GWO Optimization Techniques: A Comparative Study”, Journal of Emerging Technologies and Innovative Research, 2019.
8.	Tamilarasi M & Duraiswamy K, “Automatic detection of microaneurysms using microstructure and wavelet methods”, Sadhana-Academy Proceedings in Engineering Sciences, Springer Publishers,2015.
9.	Tamilarasi M & Duraiswamy K, “Medical Diagnosis System for Non-Proliferative Diabetic Retinopathy”, Australian Journal of Basic and Applied Sciences, 2014.
10.	Tamilarasi M & Duraiswamy K, “Ensemble System for Optic Disc and Macula Detection”, International Journal of Advanced Research in Computer Engineering & Technology,2014.
11.	Tamilarasi M & Duraiswamy K, “A Survey for Automatic Detection of Non-Proliferative Diabetic Retinopathy”, International Journal of Innovative Research in Computer and Communication Engineering, 2014.
12.	Tamilarasi M & Duraiswamy K, “Template matching algorithm for exudates detection from retinal fundus images”, International Journal of Computer Applications in Technology, Inderscience Publishers, 2013.
<b>National Conferences</b>	
1.	Tamilarasi M, “E-Learning Website with Integrated Chatbot”, National Conference on Technical Innovation and Advancement in Computational Science, Karpagam Academy of Higher Education, Coimbatore, 2024.
2.	Tamilarasi M, Karthikeyan S, Roopanraj P, Muthukumar S, “Domestic Animal Management For Farmers using Android Application”, National Conference on Emerging trends in Information Technology, Computer Science and Engineering and Cyber Security, Paavai Engineering College in Association with Indian Society for Technical Education and ICT Academy, 2022.

3.	Tamilarasi M, Abarna D, Abirami R & Karishma K, “Cloud Based Wellness Maintenance using Smartphone Sensing and Symptoms”, AICTE Sponsored National Conference on Internet of Things, Artificial Intelligence and 3D Printing, Vivekanandha College of Engineering for Women, Tiruchengode, 2020.
4.	Tamilarasi M, Chandramuki G, Amutha S, Gomathy B & Dharani K V, “Business Application for Direct Marketing of Agricultural Products”, AICTE Sponsored National Conference on Internet of Things, Artificial Intelligence and 3D Printing, Vivekanandha College of Engineering for Women, Tiruchengode,2020.
5.	Tamilarasi M, “Graph based Algorithms for Clustering and Mining Images”, National Conference on Recent Trends in Innovative Technologies, Velalar College of Engineering and Technology, Erode,2010.
6.	Tamilarasi M, “Distributed Association Rule Data Mining Algorithm based on Frequent Itemsets”, National Conference on Recent Trends in Innovative Technologies, Velalar College of Engineering and Technology, Erode,2009.

### **International Conferences**

1.	Tamilarasi M, Logesh S, Prakash T and Sivasenthil M, “Ayurvedic Intelligent System for Personalized Herbal Recommendations”, International Conference on Intelligent Computing, Advanced Communication and Materials, R.M.K. College of Engineering and Technology, 2023.
2.	Tamilarasi M, Karthikeyan S, Roopanraj P, Muthukumar S, “Smart Livestock Management for Farmers using digital technology”, International Conference on Science, Technology, Engineering and Management, Kalaignarkarunanidhi Institute of Technology, Coimbatore, 2023.
3.	Tamilarasi M, “Optimized Clustering Mechanism for QoS Aware Route Discovery in MANET”, International Conference on Green, Intelligent Computing and Communication Systems, Hindusthan College of Engineering and Technology, Coimbatore, 2016.
4.	Tamilarasi M, “Cluster based Access Privilege Management Scheme for Databases”, International Conference in Synergistic Evolutions in Engineering, Surya Engineering College, Erode, 2015.
5.	Tamilarasi M & Duraiswamy K, “Genetic based Fuzzy Seeded Region Growing Segmentation for Diabetic Retinopathy Images”, IEEE International Conference on Computer Communication and Informatics, Coimbatore, 2013.
6.	Tamilarasi M, Duraiswamy K & Ashokkumar L, “Template based Connected Component Algorithm for Exudates Detection from Retinal Images”, Proceedings of the International Convention cum Pre-Conference Workshop on Innovations in Engineering and Technology for Sustainable Development, Sathy, 2012.

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

1. Organized AICTE Sponsored National Conference on Internet of Things, Artificial Intelligence and 3D Printing on 21.02.2020 & 22.02.2020.
2. Organised R&D, Innovation and Entrepreneurship related programmes like Filing of IPR, One week FDP Webinar Series on “Insights into Quality Research and Innovation”, Research Webinar on “Art of Crafting Your Research Idea into Winnable Research Grant Proposal”, Innovation Day, Internal Hackathon, World Women Entrepreneurship Day and DST NIMAT FDP on Entrepreneurship.

3. Organized “World Women Entrepreneurship Day” in association with Namakkal District Small and Tiny Industries Association, District Industries Center and Tamil Nadu Corporation for Development of Women on 19.11.19.
4. Various Online Leadership Talk Series Programmes, Offline Workshops on Intellectual Property Rights, Idea Competition, Business Plan Development, Design Thinking & Critical Thinking Skills have been organized through Institution’s Innovation Council for the benefit of students and faculty members.
5. Organized Anna University Faculty Development Training Programme on Theory of Computation during the academic year 2018-2019.

#### 11. List of Workshops / Seminar / STTP/FDPs Attended:

Sl. No.	Programme	Duration		Organization
		From	To	
1.	FDP on Data Analytics Applications with Cloud	20.11.2023	24.11.2023	Edunet Foundation in partnership with AICTE
2.	Angular	27.06.2022	01.07.2022	Infosys
3.	Train the trainer program on Intelligent Automation Testing	Nov 2021	Dec 2022	Virtusa
4.	Workshop on Improving Research & Performance Outcomes	31.08.2021	-	Researcher Academy, Elsevier
5.	Train the trainer program on Java-Full Stack Development	12.07.2021	15.08.2021	Virtusa
6.	Faculty Development Programme on Salesforce Developer Catalyst	06.07.2021	09.07.2021	ICT Academy
7.	Innovation Ambassador Training (Advanced Level)	30.06.2021	30.07.2021	MoE's Innovation Cell & AICTE
8.	Faculty Development Program on Competitive Coding	28.06.2021	03.07.2021	E & ICT Academy, IIT Kanpur
9.	Faculty Development Program on App Development with Android	07.06.2021	12.06.2021	E & ICT Academy, IIT Kanpur
10.	Faculty Development Programme on “Architectural design using SketchUp”	21.09.2020	25.09.2020	ICT Academy
11.	Faculty Development Program on “Artificial Intelligence using Python”	14-09-2020	19-09-2020	Brainovision Solutions India Pvt.Ltd

12.	15 days Faculty Development Programme on “Data Science & its Applications in STEM (Under TEQIP-3)”	07.09.2020	21.09.2020	Andhra University College Of Engineering, Andhra University, JNTUK, Kakinada in association with APSCHE (Andhra Pradesh State Council of Higher Education)
13.	AICTE sponsored STTP on “Deep Learning Applications and Challenges in Big Data Analytics”	07.09.2020	12.09.2020	Velalar College Technology
14.	One Week International Faculty Development Programme on “Emerging Trends & Technologies in Data Science”	24.08.2020	29.08.2020	GMR Institute of Technology, Rajam, Andhra Pradesh
15.	One Week Faculty Development Programme on “An Academic Perspective on Research (Best research practices, Project proposal writing, Funding schemes and IPR)”	03.08.2020	07.08.2020	S.R.K.R.Engineering College
16.	AICTE Sponsored One Week Online Short Term Training Programme on “Recent Advancements in Internet of Things for Healthcare Applications”	27.07.2020	01.08.2020	Mount Zion College of Engineering
17.	Five Days Online Workshop on “Empowering Researchers through Talent Enhancement”	21.07.2020	25.07.2020	Kalasalingam Academy of Research and Education
18.	One week Research Workshop	25.06.2020	29.06.2020	Bell Institute Of Research and Development Studies
19.	Faculty Development Program on Data Science	01.06.2020	30.06.2020	Andhra Pradesh State Skill Development Corporation and EXCELR Solutions
20.	21 Days Virtual Course on “Research Methodology”	05.06.2020	25.06.2020	K. S. Rangasamy College of Technology, Tiruchengode and Nature Science Foundation, Coimbatore.
21.	ATAL Academy Online FDP on "Robotics"	01.06.2020	05.06.2020	University Institute Technology, Kurukshetra University

22.	One Week Faculty Development Programme on “Data science for Biomedical Applications”	26.05.2020	01.06.2020	Velalar College of Engineering
23.	ATAL Academy Online FDP on "Internet of Things (IoT)"	04.05.2020	08.05.2020	MANIT Bhopal
24.	IIC Online Sessions to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs	28.04.2020	22.05.2020	Institution's Innovation Council (IIC) of MHRD's Innovation Cell,
25.	MHRD Innovation Ambassador Training Series Programme on Pre-Incubation and Incubation Management	06.01.2020	07.01.2020	Sri Krishna College of Engineering
26.	AICTE sponsored STTP on “ICT based Intellectual Property Right- Patents, Copyrights and Trademarks”	09.12.19	14.12.19	Nehru Institute of Engineering and Technology
27.	Natural Language Processing Masters in 5 hours	13-09-2020	-	EXCELR Solutions
28.	Data Science Masters in 11 hours	05.09.2020 06.09.2020 12.09.2020	-	EXCELR Solutions
29.	Awareness series on “Intellectual Property Rights, Innovation and Entrepreneurship”	24.07.2020	27.07.2020	Kongunadu Arts Science College, Coimbatore
30.	Webinar Series on Research and Innovation	17.08.2020	20.08.2020	KGiSL Institute Technology, Coimbatore
31.	Webinar Series on Innovation to Startup	05.08.2020	07.08.2020	Kumaraguru College Technology, Coimbatore
32.	National Level Webinar on “Blockchain and IoT”	21.09.2020	-	Nehru Institute Technology, Coimbatore
33.	National Level Webinar on “Preparing and Prosecuting Patents from Students Perspective”	11.09.2020	-	Sona College
34.	International Level Webinar on “Establishing a Nexus Among IPR - Pedagogy - Competition”	29.08.2020	-	Centre for Post Graduate Studies, Sindhi College, Hebbal, Bengaluru
35.	Apply Data Science in Real World and Entrepreneurial Opportunity For Young India	27.08.2020	-	Dr.N.G.P.Institute of Technology
36.	Meaning of Meaning	27.08.2020	-	U.Ve.Sa Tamil Research Centre, Mamakudi, Mayiladuthurai
37.	Interrelationships of Research Problems, Research Questions and Reviews of Literature	26.08.2020	-	Chennai National Arts and Science College

38.	Dynamic Website Creation Using WordPress	24.08.2020	-	Nehru Institute Engineering
39.	Enhancing NAAC/NIRF Score by International Educational Standard - Educational Organizations Management System (EOMS) - ISO 21001:2018	19.08.2020	-	ISDE Academy
40.	Entrepreneurship & Opportunities for Women	03.8.2020	-	Sri Sarada Niketan College for Women
41.	Blockchain Technology	30.07.2020	-	Princeton Institute Engineering
42.	Design Thinking and Innovation, IPR, Startup, Pre-incubation and Incubation	26.07.2020	-	Kongu Engineering College
43.	Funded Research Projects: Success Practices and Opportunities	18.07.2020	-	IET Chennai Local Network
44.	Tableau for Data Visualization	17.07.2020	-	Nandha Engineering College
45.	Patent Preparation & Filing	16.07.2020	-	SNS College Technology, Coimbatore
46.	Strategies and Tips for Career Opportunities and Higher Studies	03.07.2020	-	Francis Xavier Engineering College
47.	Research planning and Implementation	29.06.2020	-	Sri Eshwar College Engineering
48.	IPR and Patent drafting	17.06.2020	-	Rathinam Technical Campus
49.	Patent Filing and Prosecution	01.06.2020	-	Kumaraguru College Technology
50.	Intellectual Property Rights and Innovation & The art of Writing Winnable Project Proposal for Funding	25.11.19	-	Vivekanandha College of Technology for Women
51.	Foundation Program 4.0	05.01.2015	09.01.2015	Infosys Limited
52.	Database Design and Programming with SQL	08.12.2014	12.12.2014	ICT Academy
53.	Workshop for mentors on NPTEL Online Certification Courses	15.03.2014	-	IIT Madras
54.	Mission 10X Workshop	01.02.2011	05.02.2011	Wipro & K.S.Rangasamy College of Technology
55.	Faculty development programme on "Open Source Software"	06.12.2010	11.12.2010	Anna University Technology, Coimbatore
56.	Workshop on "Advances and recent trends in image mining"	24.09.2010	25.09.2010	AnnaUniversity, Tiruchirappalli

57.	CSIR sponsored national workshop on “Data Mining, Data Warehousing and Biological Databases”	27.08.2010	28.08.2010	Dr.M.G.R Educational and Research Institute University
58.	Workshop on “Pattern Recognition and Data Mining with Weka”	26.03.2011	-	Dr. Mahalingam College of Technology
59.	BRNS sponsored national seminar on “Fuzzy Mathematical Morphology in Image Processing”	21.07.2011	22.07.2011	Kongu Engineering College
60.	CSIR sponsored national seminar on “Fuzzy Rough Set Theory and its Applications”	18.03.2011	19.03.2011	Kongu Engineering College
61.	ICMR sponsored seminar on “Computerized Diagnosis via Medical Images using Artificial Intelligence Techniques”	03.09.2010	04.09.2010	Kongu Engineering College
62.	Ministry of India sponsored national seminar on “Pattern Recognition for Medical Imaging”	25.03.2010	26.03.2010	K. S. Rangasamy College of Technology
63.	National seminar on Pattern Recognition	20.10.2008	21.10.2008	Periyar University
64.	Teachers Training Programme on “Instructional Design and Delivery”	08.09.2008	13.09.2008	National Institute Technical Teachers Training and Research

## 12. Details of Membership in Professional Societies:

S. No.	Name of Professional Body	Grade of Membership	Membership No.
1.	ISTE	Life Member	LM 74409

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

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

**University :** Anna University, Chennai

**Ref. No. :** 2840107

**No.of.PhD Pursuing Scholars:** 6

## 14. Achievements

- Got Elite Gold Certificate for the completion of NPTEL online course “Programming in Java”.
- Got Elite Silver Certificate for the completion of NPTEL online course “Business Intelligence and Analytics”.



- Got Elite Silver Certificate for the completion of NPTEL online course “Data Analytics with Python”.
- Got Elite Certificate for the completion of NPTEL online courses such as Cloud Computing Python for Data Science and Programming, Data Structures and Algorithms using Python.
- Received a Cambridge International Certificate for Teachers and Trainers at Professional level from Mission 10X WIPRO LTD.
- Awarded A+ grade in “Foundation Program 4.0” conducted by Infosys Limited.
- Received AICTE Grant for Conference with a funding amount Rs.5 Lakhs during the academic year 2019-2020.
- Received Grant for National Level Seminar sponsored by Tamilnadu State Council for Science and Technology.
- Received Grant for Faculty Development Programme on Entrepreneurship sponsored by DST NIMAT, Ahmedabad.
- Received approval for conducting Anna University Faculty Development Training Programme on Theory of Computation.

#### **15. Involvement in Department Activities:**

- Acting as MHRD Innovation Ambassador.
- Delivered Placement related training classes and Institution Innovation Council Seminars/Workshops.