



**VIVEKANANDHA COLLEGE OF TECHNOLOGY WOMEN**  
Elayampalayam – 637 205, Tiruchengode,



Namakkal Dt., Tamil Nadu.

**INDIVIDUAL FACULTY PROFILE**

**I. GENERAL INFORMATION**

1. Name : Mrs. M. Agalya
2. Designation / Dept. : Assistant Professor / CSE
3. Residential Address : 1/18, Nadar Street, Namakkal Main Road,  
Kumaramangalam, Tiruchengode (Tk),  
Namakkal – 637014, Tamil Nadu
4. Phone No. : 9629673851
5. E-mail ID : agalkalai@gmail.com
6. Date of Birth : 07/07/1980
7. Community : MBC
8. Father / Husband Name : Kalaimani Azhagan.S
9. Area of Specialization : Artificial Intelligence, IoT, Data Analytics,  
Wireless Sensor Networks
10. Date of First Appointment in College  
Service : 01.09.2005
11. Date of Joining : 03.06.2019

## II. ACADEMIC QUALIFICATION

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks/ Grades	Class Obtained
U.G.	B.E.	Computer Science and Engineering	2002	Sethu Institute of Technology, Madurai	Anna University, Chennai	62%	First
P.G.	M.E.	Computer Science and Engineering	2016	Vidyaa Vikas College of Engineering and Technology, Tiruchengode	Anna University, Chennai	7.68 CGPA	First
Ph.D.	(Ph.D.)	Information and Communication Engineering	Pursuing (Registered 2021)	Anna University, Chennai	Anna University, Chennai	-	-

## III. TEACHING EXPERIENCE

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Vivekanandha College of Engineering for Women	Assistant Professor	27.10.2025	Till Date	0	0	10
Vivekanandha College of Technology for Women, Tiruchengode	Assistant Professor	03.06.2019	25.10.2025	6	5	22
Sri Shanmugha College of Engineering and Technology, Sankari	Assistant Professor	28.07.2016	30.05.2019	2	10	2
PGP Polytechnic College, Namakkal	Senior Lecturer	11.04.2012	15.04.2014	2	0	4
Er. Perumal Manimegalai Engineering College, Hosur	Lecturer	03.02.2010	15.10.2010	0	8	12
Shirdi Sai Engineering College, Anekal, Bangalore	Lecturer	30.07.2007	09.07.2009	1	11	10
Adhiyamaan Polytechnic College, Hosur	Lecturer	20.07.2006	08.08.2007	1	0	19

Vemana Institute of Technology, Bangalore	Lecturer	01.09.2005	30.06.2006	0	9	29
<b>Total Experience</b>	-	-	-	15	10	18

**IV. NO. OF PAPERS PRESENTED AND PARTICIPATED CONFERENCE /**

**SEMINAR/WORKSHOP:**

S.No	Title	Event	Organizer	Date
<b>CONFERENCE</b>				
1	An overview on the Conceptualization of Viksit Bharat to Reality	National Conference	VIT, Chennai	26.7.2025 To 27.7.2025
2	Traffic Sign Detection Using CV & IoT	International Conference on Computing Solutions for Sustainable Development (ICSSD-25)	Excel Engineering College, Komarapalayam	25.04.2025 To 26.04.2025
3	Neural Interfaces for Enhancing Human Machine Collaboration in Future Workspaces	International Conference	KSR College of Engineering	27.12.2024 To 28.12.2024
4	Internet of Things Driven Rule-Based Management Model for Heterogeneous Environment	International Conference	K.S.R. College of Engineering	22.10.2024
5	Ethereum-Powered online Electronic Voting System	National Conference	Knowledge Institute of Technology	11.05.2024
6	A Review on Intelligent Techniques in Vehicular Ad-Hoc Networks	National Conference and published in International Journal of Engineering Research & Technology (IJERT)	Mangalam College of Engineering, Kottayam	23.4.2022
7	Sentiment glossary analysis for twitter with stratified controller subject miniature	International Conference	Selvam College of Technology	4.3.2020 To 5.3.2020
8	Minimising service delay in edge cloud computing	National Conference	Annapoorana Engineering College	25.01.2018

			College	
9	Identity pattern recognition of image using K-nearest classifiers	International Conference	Karpagam Institute of Technology	22.03.2019
10	Video Coding with Optimal Switching for Packet Loss Resilience	National Conference	T.J.S. Engineering College, Chennai	26.05.2015
11	Secure Routing Protocols in Mobile Adhoc Networks	National Conference	PGP College of Arts and Science, Namakkal	22.02.2014
12	Virtual Reality System in Science and Engineering Education	National Conference	Shirdi Sai Engineering College, Bangalore	29.04.2009
<b>FDP/SEMINAR/WORKSHOP</b>				
1	Data Analytics	FDP	Infosys BPM, Chennai	22.01.2025 To 24.01.2025
2	Automata Theory and Turing Machine	Guest Speaker-Seminar	SSM College of Engineering	7.5.2025
3	Theory of Computation	Guest Lecture	Vidyaa Vikas College of Engineering and Technology	6.5.2025
4	Theory of Computation	Webinar-Guest Speaker	Paavai College of Engineering	2.5.2025
5	Theory of Computation	Guest Lecture	Sasurie College of Engineering	26.4.2025
6	Exploring Emerging Technologies in Next Gen communication Networks	ATAL-FDP	R.L.Jalappa Institute of Technology	25.11.2024 To 30.11.2024
7	Resource Management, Security &Architecting with Cloud	FDP	Kongu Engineering College, Erode	3.5.2024 To 4.5.2024
8	Deep Learning Techniques for Social Media Analytics	FDP	Kongu Engineering College, Erode	15.04.2024To 20.04.2024
9	Pixels to predictions: Machine Learning in Medical Imaging	FDP	VIT, Chennai	11.12.2023To 15.12.2023
10	Microsoft Power BI Data Analyst Associate	ICT -FDP	Knowledge Institute of Technology	18.12.2023 To 22.12.2023
11	Recent Trends in AI, IoT and Data Analytics	ATAL-FDP	Shri Vishnu Engineering College for Women	09.02.2022To 13.02.2022
12	Artificial Intelligence, Machine Learning and Deep Learning	ATAL-FDP	University Visvesvaraya college of	1.2.2021 To 5.2.2021

			Engineering	
13	Intelligent object Technologies for building applications on data science with ML techniques using IOT	FDP	KSR College of Engineering	8.3.2021 To 21.3. 2021
14	Creative Thinking	FDP-ICT Academy	Online	16.3.2021 To 20.3.2021
15	Machine Learning	Workshop	Government college of Engineering	15.02.2020
16	Research Proposal Writing	Seminar cum workshop	Vivekanandha College of Engineering for Women	3.3.2020 To 4.3.2020
17	Wearable Devices	ATAL-FDP	NIT Jamshedpur	14.12.2020To 18.12.2020
18	Augmented Reality / Virtual Reality	FDP	Kumaraguru College of Technology	07.12.2020To 11.12.2020
19	Theory of Computation	FDP	Sri Sai Ram Institute of Technology, Chennai	22.06.2020 To 26.06.2020
20	AWS Cloud Master	FDP	ICT Academy, KSR College of Engineering	26.03.2019
21	Guru Srishti-Faculty transformation and Effective Communication	FDP	Vivekanandha College of Technology for Women	19.7.2019 To 20.7.2019
22	Machine learning using python	FDP	Vivekanandha College of Technology for Women	11.11.2019 To 16.11.2019
23	Intellectual Property Rights and Innovation & The art of writing winnable project proposal for funding	Workshop	Vivekanandha College of Technology for Women	25.11.2019
24	Blockchain	ATAL-FDP	NIT,Puducherry	27.12.2019 To 31.12.2019
25	Advanced Python Programming	Workshop	Excel Engineering College	16.11.2018To 17.11.2018
26	R programming in Big data Analytics	Workshop	Sri Shanmugha	7.6.2017 To

			College of Engineering and Technology	10.6.2017
27	The new age of quantum cryptography	Workshop	Sri Ramakrishna Engineering College	27.06.2018 To 28.06.2018
28	Introduction to cloud infrastructure and services	ICT-FDP	Sri Shanmugha College of Engineering and Technology	18.06.2018 To 19.06.2018
29	Analysis and Detection of Cervical cancer using image processing	Seminar	Kongu Engineering College	29.04.2017
30	Problem Solving and Python Programming	FDP	Er. Perumal Manimegalai College of Engineering	04.08.2017To 05.08.2017
31	Theory of Computation	FDP	Anjalai Ammal-Mahalingam Engineering College	29.05.2017 To 02.06.2017
32	Analytics with R	Workshop	Sri Shanmugha College of Engineering and Technology	05.01.2017
33	Compiler Design	FDP	KSR Institute for Engineering and Technology	15.12.2016 To 17.12.2016
34	Introduction to PHP programming	ICT-FDP	Sri Shanmugha College of Engineering and Technology	12..12.2016 To 13.12.2016
35	Mobile computing using Android	Workshop	PSG Polytechnic College, Coimbatore	11.08.2012
36	Microprocessor Interfacing	Workshop	Auden Technology and Management Academy	2.4.2009

## V. PUBLICATIONS

### 1. JOURNALS

S.No	Title of the Paper	Journal Name	Year of
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			Publication
1	An Overview on the Conceptualization of Viksit Bharat to Reality	National Conference on Road Map to Viksit Bharat – A Multi-Disciplinary Approach, VIT Chennai	2025
2	Machine Learning Applications in Optimizing Healthcare Waste Management Processes	IGI global Scientific Publishing	2025
3	Neural Interfaces for Enhancing Human–Machine Collaboration in Future Workspaces	Proceedings of 3rd International Conference on Innovative Materials and Smart Solutions for Sustainability (ICIMSSS-24), K.S.R. College of Engineering	2024
4	Wireless Sensor Network Anomaly Detection using SVM–REF MRMR	IEEE (Scopus Indexed)	2023
5	Arduino-based driver drowsiness detection and alerting system	International Scientific journal of Engineering and Management	2023
6	Architecture-Based Routing Protocol for Wireless Sensor Networks: A Survey	Journal of Xi'an Shiyou University	2021
7	Phishing Spam Email Ontological Detection	International Journal of Engineering Sciences & Research Technology	2020
8	An Enhanced Method for Extending Computation and Resources by Minimizing Service Delay in Edge Cloud Computing	IJESRT	2018
9	Video Coding with Optimal Switching for Packet Loss Resilience	International Journal of Engineering and Computer Science	2016

#### VI. PATENTS AND BOOKS PUBLISHED

S.No	Title	Type	Publication / Application No.	Date
1	Artificial Intelligence and IoT-based Smart Health Care System to Monitor and Predict Brain Diseases and Tumour using WSN and Deep Learning Algorithms	Indian Patent	Application No: 202221065760	25.11.2022
2	Optimized Quantum Computing	Indian Patent	Application No:	21.06.2024

	Architecture for Complex Optimization Problems		202441044532	
3	Theory of Computation	Charulatha Publications	-	07.04.2023
4	Beginners to Python Programming	Charulatha Publications	ISBN: 978-93-5577-182-7	07.04.2022

#### VII.Others

1. Conference Reviewer -2025 IEEE 7th International Conference on Computing, Communication and Automation (ICCCA-2025) held on 28.11.2025 To 30.11.2025
2. Reviewed IGI global book chapter titled "Industry 6.0 for Sustainable Supply Chains in Agriculture, Healthcare, and Asset Management." On august 2025



**Signature of the Faculty**