GOVERNMENT COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING TIRUNELVELI – 627 007.

1. Name in full (in Capital Letters)   : Dr. G. Tamilpavai

2. Designation   : Professor (CAS) and Head

3. Date of Joining the present post   : 09.08.2017

4. Date of Joining the institute   : 09.08.2001

5. Date of Birth   : 04.04.1978

5a. PAN Number   : AEPPT0079P

5b. Aadhar Number   : 288379662221

5c. Scale of pay   : 162300

6. Address :

a) Permanent Address: 66 B/3 , 6th Cross Street, Rajendra Nagar, Palayamkottai, Tirunelveli-627007.	b) Communication Address with Mobile No. /E.mail ID : 66 B/3 , 6th Cross Street, Rajendra Nagar, Palayamkottai, Tirunelveli-627007. +(91) 9442523888 tamilpavai@gcetly.ac.in

7. Educational Qualification (Starting from basic degree) :

Degree	Area of Specialization	Institute/ University	Month & Year Of passing	Class
B.E	Computer Science and Engineering	Madurai Kamaraj University (Thiagarajar College of Engineering, Madurai)	May 1999	First class
M.E	Computer Science and Engineering	Anna University, Chennai (Government College of Engineering, Tirunelveli- 627007)	May 2005	First Class
Ph.D	Information and Communication Engineering	Anna University, Chennai	May 2014	--

8. Experience (Starting from current position):

a) Academic:

Period		No. of years	Designation	Institute/organization
From	To			
08.08.2017	Till Date	7	Professor(CAS) and Head	Government College of Engineering, Tirunelveli 627007
09.08.2014	08.08.2017	3	Associate Professor(CAS)	Government College of Engineering, Tirunelveli 627007
01.01.2006	08.08.2014	11.2	Assistant Professor (Sr.Gr)	Government College of Engineering, Tirunelveli 627007
09.08.2001	31.12.2005	4.5	Lecturer	Government College of Engineering, Tirunelveli 627007
02.07.1999	30.07.2001	2	Lecturer	K.L.N College of Engineering, Pottapalayam, Sivakangai(DT).

b) Research:

Period		No of years	Designation/Nature of job	Institute/organization
From	To			
2016	Till Date	8	Recognized Supervisor	Anna University, Chennai

c) Industrial:

Period		No. of Years	Designation / Nature of job	Institute / Organisation
From	To			

9. Publications

9.1 Publications in journals:

Sl.No	Title	Authors	Name of the Journal	National/ International	Vol/Issue/Year
1.	Performance Comparison between Deep Neural Network and Machine Learning based Classifiers for Huntington Disease Prediction from Human DNA Sequence	C. Vishnuppriya and G. Tamilpavai,	IEEE/ACM Transactions on Computational Biology and Bioinformatics	International	doi: 10.1109/TCBB.20 24.3493203. 2021
2.	An optimal model using single-dimensional CAE-IRNN based SPOA for cyclone track prediction	S.Akila Ragini, Dr. G. Tamilpavai	Expert Systems with Applications		Volume 230, 15 November 2023, 120437 https://doi.org/ 10.1016/j.eswa. 2023.120437
3.	An Optimal Stacked ResNet-BiLSTM Based Accurate Detection and Classification of Genetic Disorders	K. Nandhini, Dr. G. Tamilpavai	Neural Processing Letter	International	2023 https://doi.org/10. 1007/s11063-023-11195-3
4.	Nomadic people optimisation based Bi LSTM for detection and tracking of tropical cyclone	S.Akila Ragini, Dr. G. Tamilpavai	Journal of Earth System Science .	International	Volume 19, 2023 https://doi.org/10.1007/ s12040-022-02028-3
5.	Hybrid CNN-LSTM and modified wild horse herd Model-based prediction of genome sequences for genetic disorders	K. Nandhini, Dr. G. Tamilpavai	Biomedical Signal Processing and Control	International	Volume 78, 2022 https://doi.org/10.10 16/j.bspc.2022.1038 40
6.	Auto Regression based RESNET Methodology for Air Pollution Detection	Dr.G.Tamilpavai, R.Udaya Shanmuga	International Journal of Creative Research Thoughts	International	Volume 10, Issue 9 2022
7.	CNN based Feature Extraction for Air Pollution Detection	Dr.G.Tamilpavai, R.Udaya Shanmuga	International Journal of Science and Engineering Development Research	International	Volume 7, Issue 9 2022
8.	A Secure and Robust Routing Scheme In MANET	D.Beryl Gifty Monisha & Dr.G.Tamilpavai	Journal of The Asiatic Society of Mumbai	International Vol. XCV	No.9, 2022

9.	Cancer Classification of Human Gene Data under Low Rank Representation	P.Deepa & Dr.G.Tamilpavai	International journal of Research in engineering and Sceince	International	Vol.10, Issue 3, 2022
10.	Cancer Classification on Gene Expression Data Using Semi Supervised Learning Methods	P.Deepa & Dr.G.Tamilpavai	International Journal of Scientific Research and Engineering Development	International	Vo.-4, issue 6,2021
11.	Prediction of Cyclone and its classification using Deep Learning Techniques	Nandhini.K, Dr.G.Tamilpavai & S.Akila Rajini	International journal of innovative Research in Technology	International	Vol.7, Issue 4 Sep 2020
12.	Detection of Longest Common Sub Sequence in Normal DNA and Dengue Virus Affected Human DNA using Self Organizing Map	Dr.G.Tamilpavai & C.Vishnuppriya	International Journal of Computer Science and Engineering	International	Vol.-8, Issue-1, Jan 2020.
13.	A Computational Perception of Locating Multiple Longest common subsequence in DNA sequence	G. Tamilpavai, R. Sirpathy Padhma & C.Vishnupriya	International Journal of Intelligent Enterprise	International	Vol. 7, Nos. 1/2/3, 2020
14.	Classification of Cloud types using Partial Least Square Regression	Nandhini.K & G.Tamilpavai	International Journal for Science and Advance Research in Technology	International	Vol.-5, Issue 11,Nov 2019
15.	Detection of Huntington's Disease in Human DNA Sequence using Numerical Encoding Method and Machine Learning based Classifier	G. Tamilpavai & C. Vishnuppriya	International Journal of Recent Technology and Engineering	International	November 2019
16.	Classification of Sky/cloud Images on Reduced Dataset using kNN Algorithm and modified Genetic algorithm	Akila Rajini.S& Dr.G.Tamilpavai	JASC: Journal of Applied Science and Computations	International	Volume VI, Issue V, May 2019
17.	Implementation of Smart and Safe Navigation System for Fisherman	G.Tamil Pavai,& Ms.S.Shopika	International Journal of Modern Electronics and Communication Engineering	International	Nov 2018
18.	Identification of Disease causing DNA motifs in Human DNA using Clustering Approach	G.TamilPavai& C.Vishnuppriya	InternationalJourn al of Biomedical and Biological Engineering	International	April 2018/2

No.	Title	Authors	Journal	Level	Date/Issue
19.	Optimal Routing and Velocity Control for Wireless Charging Vehicle in WRSN	G.Deena & Dr.G.TamilPavai,	International Journal of Engineering Science and Computing	International	April 2017,7
20.	Biomedical optical image classification for Glaucoma using wavelet based energy features and FCM	G.Tamil G.TamilPavai	Asian Journal of Information Technology	International	2016/ 15(17)
21.	Privacy Enhanced Personalization in Content, Semantic and Location Approach	G.TamilPavai	Asian Journal of Research in Social Sciences and Humanities	International	June 2016/6
22.	Proficient System for Feature Subset Selection in High Dimensional Data	V.Thirumani Thangam, G.TamilPavai & P.SenthilKumar ai	International Journal for Innovative Research in Science & Technology	International	Feb - 2015/9
23.	Glaucomatous Image Classification Using Wavelet Based Energy Features And PNN	A.Iyyanarappan & G.TamilPavai	International journal of technology enhancements and emerging engineering research	International	2014/2, Issue 4
24.	Identification of Proliferative Diabetic Retinopathy Using Texture Segmentation	G.TamilPavai & Dr.S.Tamilselvi	Journal of Computer Science	International	May 2013/9
25.	Color Texture Classification using Improved DLBP for Skin Image	G.TamilPavai & Dr.S.Tamilselvi	European Journal of Scientific Research	International	March 2013/ 97
26.	Multiple Representations of Perceptual Features for Texture Classification and Retrieval	G.TamilPavai & Dr.S.Tamilselvi	International Journal of Computer Applications	International	2012/ 48
27.	Identification of Brain Tumor Using Texture Segmentation	G.TamilPavai& Dr.Wiselin Jiji	CiiT International Journal of Digital Image Processing	International	2010/ 2

9.2 Publications in conferences:

Sl. No	Title	Name of the Journal	National/ International	Year/Vol
1.	Drug-Target Interaction Bioactivity Prediction using Deep Learning Model	International Conference on Future Technology Advancement	International	2024
2.	Prediction of Drug-Target Interaction using Deep Learning Techniques	National Conference on Innovative Research in Electrical, Electronics and Communication Engineering	National	2023
3.	Automated Air Pollution detection and estimation of AQI using RESNET	National Conference on smart systems and Technologies	National	DEC 2021
4.	Classification of Weather Condition using Deep Learning Techniques	International conference on Emerging trends in Applications of Computing	International 2020	
5.	Classification of Cloud Types using PLS Regression and SVM Classifier	6th International conference on Electrical, Electronics, Instrumentation and Computer Communication – 2019	International 2020	
6.	Classification of Sky/Cloud images Predictive Logical Regression	National Conference on Recent Trends in Engineering and Technology	International 2020	
7.	Detection of Huntington's Disease in Human DNA Sequence using Numerical Encoding Method and Machine Learning Based Classifier	International Conference on Recent trends and Challenges in Healthcare Informatics	International 2020	
8.	Identification of Disease Causing DNA Motifs in Human DNA Using Clustering Approach	ICBBE 2018: 20th International Conference on Biomaterials and Biomedical Engineering, Mumbai, India	International 2018	20(2)
	An Approach for Finding Cancer Associated Motifs in Human DNA Sequence	International Conference on Electr Computers, Communication, Mechanical and Computing (EECCMC) (IEEE Conference)	International 2018	403-409

10. a) Academic Research guidance / Supervisor ship: **Completed**

Name of Research Scholars	Course / M.Phil / Ph.D	Area of Research / Work	Status
Akila Rajini.S	Ph.D	An Amalgamation of Soft Computing Techniques on Classification of Cloud Types for Weather Forecasting	Completed
Nandhini K	Ph.D	Analysis and prediction of genome sequences for genetic disorders	Completed

b) Academic Research guidance / Supervisor ship: **On Going**

Name of Research Scholars	Course / M.Phil / Ph.D	Area of Research / Work	Status
Vishnuppriya.C	Ph.D	Detecting Defective DNA motifs to find genetic disease sequence in a Human DNA using SOM	On going
Jeenath Laila.J	Ph.D	Building, implementing and maintaining block chain infrastructure over legacy systems	On going
Merlin Sheeba M	Ph.D	Study of FOG based system with Bi-level Secured Key Generation Approach	On going
Udaya Shanmuga R	Ph.D	An Analysis of Automated Air Pollution Detection And ROI Segmentation for Air Quality Prediction	On going
Durga Devi G	Ph.D	Study and analysis of various security and privacy issues in IoT system using Blockchain technology	On going
Angelin Jeba P	Ph.D	Generation of proteomic big data model for precision medicine	On going
Purushothaman B	Ph.D	An Efficient Text Summarization using Hybrid AI Techniques for Enhancing Content Retrieval	On going
Aarthy B	Ph.D	A Novel Hybridized Deep Learning Approach for Human Activity Recognition using Attention Mechanism	On going
Junia O	Ph.D	Collaborative Working Platform: A Novel Framework to Analyze Speech and Assessment Activities of Students	On going
Krishna Nandhini B	Ph.D	Study and analysis of an Efficient Surveillance System for Road accident detection using AI and Computer Vision	On going

11. Sponsored Project done :
a) R & D Project:

Title	Sponsoring Agency	Year	Details of Project	Responsibility	Amount Sanctioned
Curating Proteogenomic big data for Precision Medicine through Deep Learning	TNSCST	2023 - 2025	DTI interaction	PI	60,000
Detecting Defective DNA motifs to find genetic disease sequence in a Human DNA using SOM	SERB, New Delhi	2017- 2020	Finding genetic disease	PI	14.78 L

12 a) Seminars / Schools / Conferences/ Workshops / FDP Organised:

S.No	Title	Co-ordinators	Organized By	Month & Year
1.	AI Evolution: From Foundations to Generative AI	Dr.G.Tamilpavai	Government College of Engineering, Tirunelveli	May 2024
2.	Two Day Hands on workshop on Embedded System and IoT	Dr.G.Tamilpavai	Government College of Engineering, Tirunelveli	January 2024
3.	One day Workshop on "MS-Office"	Dr.G.Tamilpavai	Government College of Engineering, Tirunelveli	July 2023
4.	Vision -09	Dr.G.Tamilpavai	Government College of Engineering, Tirunelveli (CSIR Sponsored)	April 2009
5.	Vision -10	Dr.G.Tamilpavai	Government College of Engineering, Tirunelveli	April 2010
6.	Vision -11	Dr.G.Tamilpavai	Government College of Engineering, Tirunelveli	April 2011
7.	Vision -12	Dr.G.Tamilpavai	Government College of Engineering, Tirunelveli	April 2012
8.	Vision -13	Dr.G.Tamilpavai	Government College of Engineering, Tirunelveli	April 2013
9.	Vision -14	Dr.G.Tamilpavai	Government College of Engineering, Tirunelveli	April 2014
10.	Vision -15	Dr.G.Tamilpavai	Government College of Engineering, Tirunelveli (DBT Sponsored)	April 2015
11.	Vision -16	Dr.G.Tamilpavai	Government College of Engineering, Tirunelveli	April 2016

b) Seminars / Schools / Conferences / Workshops/ FDP Attended:

Sl.No	Name of the Course	Conducted By	Period
1.	Building Advanced Data Analytics Applications with Cloud		5 days
2.	SAR Preparation for NBA	Government College of Engineering, Tirunelveli	1 day
3.	ATAL Academy FDP on Improving Personal Effectiveness at Workplace	ATAL	5 days
4.	Inculcating Universal Human Values in Technical Education	ATAL	5 days

5.	ATAL Academy FDP on Strees Management	ATAL	5 days
6.	FDP in Entrepreneurship (PSG-STEP)	PSG-STEP	14 days
7.	AICTE Training And Learning (ATAL) Academy Online FDP on "Stress-management"	ATAL	5 days
8.	ATAL Academy FDP on Blended Learning and Flipped Classroom	ATAL	5 days
9.	ATAL Academy FDP on BlockChain	ATAL	5 days
10.	ATAL Academy FDP on Developing Consciousness	ATAL	5 days
11.	Pedagogy for the use of ICT to Improve Quality of Teaching And Learning(AICTE-ISTE)	AICTE-ISTE	1 week
12.	One Week AICTE-ISTE Induction/Refresher Programme on "Pedagogy for the use of ICT to improve quality of teaching and learning"	Government College of Engineering,Tirunelveli	1 Week
13.	Pedagogy for online and blended teaching learning process	IIT Bombay	5 Weeks
14.	Foundation Program in ICT for Education	IIT Bombay	5 Weeks
15.	Hands-on Workshop on Python Programming	Anna University Anna University Regional Campus,Tirunelveli	2 days
16.	Internet of Things(IoT) in Engineering Applications	Government College of Engineering,Tirunelveli	1 day
17.	Problem Solving and Python Programming	Government College of Engineering,Tirunelveli	4 days
18.	Deep Learning	Mepco Schlenk Engineering College,Sivakasi	1 day
19.	Formulation and Preparation of Research Project Proposals	Mepco Schlenk Engineering College,Sivakasi	2 days
20.	Advanced Image Processing and its Applications	Manonmaniam Sundaranar University,Tirunelveli	7 days
21.	One Week AICTE-ISTE Induction/Refresher Programme on "Pedagogy for the use of ICT to improve quality of teaching and learning"	Government College of Engineering,Tirunelveli	1 Week

13. a.Special / Invited Lectures Delivered:

Sl.No	Topic	Area	Delivered at	Year / Date	Remarks
1.	2 day international technical conference on recent trends in advanced computing	HPC Supercomputing : advances in Architecture and performance optimization	FX Engineering College, Tirnelveli	19.09.2024	Conference chief guest and given key note address
2.	Pedagogical Issues- Outcome based education	FDP	University college of Engineering, Nagercoil	26.06.2024	6 day FDP on CME-339-Additive Manufacturing
3.	Usage of Smart Phones	NSS unit 005& 143	Rani Anna Arts and Science college for Women, Tirunelveli	01.03.2024	Delivered @ Kothankulam, Gopalsamuthiram
4.	Artificial Intelligence and Machine Learning	Anna University Sponsored FDTP	Kamaraj College of Engineering and Techmology	14.02.2024	Resource Person
5.	Research challenges in Internet of Things	AICTE-ATAL FDP	Mother Thersa Engineering college, Vagaikulam	6.11.2023	Resource Person
6.	State level Project Expo	School Students Project	Sr.Sivanthi Aditanar College of Engineering, Tiruchendur.	31.10.2023	Technical Chair Person and Jury
7.	Preparation Strategy for GATE	GATE syllabus	Sethu Institute of Technology, Madurai	04.08.2021	Resource Person
8.	Interactive Learning Techniques	ICT	Government College of Engineering, Tirunelveli	20.11.2018	AICTE-ISTE Induction / Refresher Programme
9.	Recent trends in Computer Science Research	Emerging areas of CS	Dr.Sivanthi Adithanar College of Engineering, Tiruchendur	11.10.2017	INSTAFEST Symposium Chief Guest
10.	Hands-on Workshop on Python Programming	Problem Solving techniques	GCE, Tirunelveli	11.08.2017	FDP
11.	Microsoft Office Practice	Computer Science and Engineering	GCE, Tirunelveli	29.06.2017	STTP
12.	IoT, Goal Setting and Belief System	IoT	Thamirabharani Engineering College, Tirunelveli.	17.02.2017	Symposium Chief Guest

13.	R Tool	Big data analytics	FX. Engineering College, Tirunelveli	15.06.2016	FDP
14.	Deep insight into the latest development in Computer Science	Computer Science and Engineering	Mother Thresa College of Engineering, Tuticorin	23.07.2014	Association Inauguration
15.	DMA and interrupts, I/O processors, Measuring and improving cache performance and Virtual memory, TLBs	Computer Architecture	Thiagarajar College of Engineering, Madurai	05.07.2014	FDP on Computer Architecture

b. Resource persons for various events

Sl.No	Organization	Purpose	Acted as	Date
1.	AICTE	Online EVC Member	Committee Member	Since 2023
2.	Anna University Regional Campus, Tirnelveli	Technical and purchase committee member	Committee Member	Since 2022
3.	Anna University Nominee for various activities	Academic Council & BOS	Member	Since 2015
4.	SAGE Publication Concurrent Engineering Journal	Reviewer	Reviewer	Since 2017
5.	Journal of Scientific Research	Reviewer	Reviewer	Since 2016
6.	EPF	Obsolescence of computers	Technical advisor	01.08.2017
7.	Anna University	Affiliation	Committed member & Chair Person	Since 2008
8.	Anna University	Squad	Team member	Since 2008
9.	AICTE, New Delhi	Expert Committee	Member	Since 2017
10.	ACCET, Karaikudi	BOS	Subject Expert	2013-2016

11.	PSN College of Engineering	BOS	Subject Expert	2014-2016
12.	Various Engineering Colleges	International and National Conference	Chair person	Since 2005
13.	Anna University	Valuation	Chairman, Vice chairman and Examiner	Since 2003

14. Membership in professional societies:

Name of the Society	Details of Membership
Biomedical Engineering Society of India	L1203(Life member)
The Institution of Engineers (India)	M-1551528 (Life member)
Indian Society of Technical Education	LM 32922 (Life member)

15. Prizes, Medals and honors received, if any:

Details of award	Awarded for the work	Date
Best Paper Award	Drug Target Interaction for Bioactivity prediction using Deep Learning Model	March 2024
Best Presentation Award	Paper Title: Identification of Disease Causing DNA Motifsin Human DNA Using Clustering Approach Paper published at ICBBE 2018: 20th International Conference onBiomaterials and Biomedical Engineering, Mumbai, India	February 22 - 23, 2018
Best Research Idea award	NIT Trichy	2011

Contribution to the College:

Date of Joining	Years of Experience	Responsibilities held	Nature of activities for the betterment of College
2024	**1 year**	**ICC member**	**Innovation activities**
2021	1 year	BOG Sub committee Coordinator	Acted as Coordinator for Finance Committee
2020-2024	5 years	TNEA Co-coordinator	Coordinates all kinds of TNEA activities
2019 & 2018	2 Years	TNEA Supervisor	Assist Coordinator for Various TNEA activities
2018	2 years	NBA Coordinator	All NBA related activity

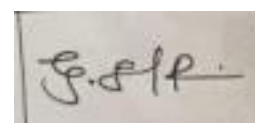| 2018	1 Year	Deputy Warden	Take care second student in the ladies hostel.
2017	1 year	Wi-fi cell Coordinator	Maintenance of college campus wide networking and firewall
2015	3 years	Funded Project Coordinator	Download the formats of various funding agents and distribute to the faculty members
2015	3 years	Tech Expo Coordinator	Project list preparation and overall arrangements and visit plan for the event
2017	1 years	Digital India Hackathon Coordinator	List preparation and consolidate the work and submit the same to DOTE chennai
2012	5 years	BOG Sub committee Memeber	Acted as members for various sub committee like purchase, institution development, library and academic committee
2011-2016	5 Years	TNCET Coordinator	Coordinates all kinds of TNCET activities

Contribution to the Department:

Date of Joining	Years of Experience	Responsibilities held
2001	23 years	Purchase Committed Member
2009-2011 & 2019- till	7 years	Head of the Department
2001	18 years	Faculty Advisors
2005-2017	12 years	Conference Coordinator
2014-2018	4 years	Tech expo coordinator

16.a).Faculty travel for official purpose:

Sl.No	Purpose	Period	Place

16.b). Industrial Visits

Sl.No	Date	Name of the Industry	Remarks
1	21.03.2016	Company Visit-(Solar Physical Observatory, Research Dept)	
2	22.03.2016	FM Station	

Signature