



GENERAL INFORMATION

1.	Name (in Block Letters):	Dr.B.BEN SUJITHA
2.	Designation	Professor
3.	Department:	Computer Science & Engineering
4.	Date of Birth:	19-03-1980
5.	Gender:	female
6.	Address for correspondence :	Cheriavattam,Kallukootam, Kanyakumari District Pin:629802
7.	Telephone/Mobile No:	9488282942, 6380326436, 9486855773
8.	E-mail:	bensujitha@gmail.com , bensreghu@gmail.com , bensujitha@niuniv.com
9.	Google scholar	https://scholar.google.com/citations?user=gSmbsGMAAAAJ&hl=en
10.	Scopus link	https://www.scopus.com/authid/detail.uri?authorId=56636686700
11.	Orcid ID	0000-0003-2590-6645
12.	Vidwan-ID	491800

ACADEMIC DETAILS

Degrees	Name of University	Subject	Year of Passing/ Date of award	Percentage of marks	Division Class/ Grade
B.E.	Manonmaniam Sundaranar University	Information Technology	2003	76.42	First
M.Tech.	Manonmaniam Sundaranar University	Computer & Information Technology	2007	81.4	First with Distinction
Ph.D.	Anna University	Information and Communication Engineering	2017	82	NA

WORK EXPERIENCE

Designation	Name of Employer	Period of Service			Pay Band with AGP/ Academic Level
		From	To	Total Period	
Professor	Noorul Islam Centre for Higher Education (Deemed to be University)	August 2023	Till date	2 year 9 months	47400
Professor & Principal	Good Shepherd College of Engineering and Technology	November 2021	July 2023	1 year 7 months	60000+ allowances
Professor	Jeppiaar Institute of Technology	August 2020	October 2021	1 year 3 months	75000
Professor & Director	Ponjesly College of Engineering	May 2019	February 2020	10 months	45000
Associate professor	Kalasalingam University	June 2017	April 2019.	1 year 10 months	74000
Associate Professor & HOD	Ponjesly College of Engineering	February 2013	May -2017	4 years 3 months	41000
Associate Professor & HOD	Ponjesly College of Engineering	June 2008	February 2013	4 years 9 months	38000
Assistant Professor & HOD	Ponjesly College of Engineering	November 2007	June 2008	8 months	18000

Lecturer	Ponjesly College of Engineering	January 2007	November 2007	11 months	12000
Lecturer	Hindusthan College of Engineering & Technology	October 2004	December 2005	1 year 2 month	14000
Lecturer	M.Kumarasamy College of Engineering	July 2003	October 2004	1 year 3 months	8000

PUBLICATIONS

1. Research Papers (Journal)

S. No.	Title with page nos. and date of publication	Journal	ISSN No	IF	SCI/SCOPUS/UGC
1	Enhancing Anomaly Detection in IoT using Gaussian Mixture Model Clustering and Support Vector Machine K-Nearest Neighbour Model pages 2-22 pub date 2026/1 vol 76 iss 1	MITTEILUNG EN KLOSTERNEUBURG	0007-5922.	0.5	SCIE
2	Spatial-temporal learning using GCN-BiLSTM for accurate renewable energy power prediction pages 112251 , vol 251 pub date 2026/2/1	Electric Power Systems Research	0378-7796	4.2	SCI, SCOPUS
3	A Hybrid Deep Learning Model with 1D-CNN and Transformer Encoder for Anomaly Detection in Large Scale IoT Networks 2025 9th International Conference on Electronics, Communication and Aerospace Technology (ICECA) page 43-51 date 2025/11/5 date of conference 05-07 November 2025 DOI: 10.1109/ICECA66444.2025.11383033	IEEE explore	979-8-3315-9929-4		SCOPUS
4	Sequential-Attention Based Neural Architecture Integrating BiLSTM and Multi-Head Attention for Dynamic Anomaly Detection in IoT Environments.	International Journal of Intelligent Engineering & Systems	2185310X	1.6	SCOPUS
5	Anomaly Detection for IoT Applications using WW-RF and MLP-DBO Algorithms.	KSII Transactions on Internet & Information Systems	2650-2677	0.9	SCIE, SCOPUS
6	Deep Learning-Driven Detection of Terrorism Threats from Tweets Using DistilBERT and DNN	International Journal of Advanced Computer	2156-5570	0.9	SCOPUS

		Science and Application			
7	Intelligent Energy Consumption Estimation in IoT-Enabled Smart Homes Using a Hybrid CNN-GRU Model	IEEE -digital Xplore	979-8-3315-0172-3		SCOPUS
8	ID-KOS Method: Image Defogging via Kookaburra Optimized Stationary Wavelet	IETE Journal of Research	03772063	1.3	SCI, SCOPUS, UGC CARE
9	Optimal Deep learning-based image compression technique for data transmission on industrial Internet of Things applications	Transactions on Emerging Telecommunication Technology	2161-3915	3.31	SCI
10	Integrating Intelligent Breach Detection Systems into 6G enabled Smart Grid Cyber Physical Systems	Wireless Personal Communication	0929-6212	1.9	SCI
11	MOON-NET: Deep Learning based Melanoma Skin Lesion Classification using SE-DNet and DBN 2025 IEEE International Conference on Compute, Control, Network & Photonics (ICCCNP) Pages 1-6 pub date 2025/9/18 Date of Conference: 18-19 September 2025 DOI: 10.1109/ICCCNP63914.2025.11233427	IEEE Digital Xplore	979-8-3315-3539-1		SCOPUS
12	The Impact of Social Media in Terrorist Attack Detection: A Comprehensive Study	IEEE Xplore	979-8-3315-0574-5		SCOPUS
13	Crystals Kyber Cryptographic Algorithm for efficient IoT D2d Communication	Wireless Networks	1572-8196	2.1	SCI
14	An Efficient Breast Cancer Detection Using Machine Learning Classification Models	International Journal of Online and Biomedical Engineering	2626-8493	1.7	SCI
15	Revolutionizing Bone Fracture Diagnosis: A Deep Learning Approach to X-Ray Image Analysis	SSRG International Journal of Electronics and Communication	2348-8549	0.5	Scopus
16	Advancements in Deepfake Detection: A Comprehensive Review of AI-Driven Approaches	IEEE Digital Xplore	979-8-3315-0574-5		

17	An effective block chain-based data access scheme for patient health based on ECC scheme with an improved hidden attribute access policy with CP-ABE	Staps journal	0247-106X	0.5	SCOPUS
18	Prediction Of Drowsiness of Human Using Physiological Measured with Optimized Learning Methods	Caribbean Journal of Science	0008-6452	0.2	SCI
19	Providing Resilience on Cloud Computing	IEEE Digital Xplore	2329-7190	14.91	Scopus
20	Intelligent Energy Consumption Estimation in IoT-Enabled Smart Homes Using a Hybrid CNN-GRU Model	IEEE Digital Xplore	979-8-3315-0172-3	3.6	Scopus
21	The Impact of Social Media in Terrorist Attack Detection: A Comprehensive Study	IEEE Digital Xplore	DOI: 10.1109/ICMLAS64557.2025.10967634	6.9	Scopus
22	Advancements in Infant cry Classifications: A Literature Review on Methods and Systems	International Journal of Innovative research in Technology	2349-6002	6.9	UGC CARE
23	Alzheimer's Prediction Using Machine Learning	International Research Journal of Engineering and Technology	2395-0056	1.9	REFERR ED
24	Breaking Barriers: A Survey of Sign Language Translation Systems	IJIRT	2349-6002	0.2	UGC care
25	Enhancing Pancreatic Cancer Diagnosis Precision through Early Detection with ResUnet	J. Electrical Systems	1112-5209	0.5	Scopus
26	AMENET: Deep Learning-Based Automated Melanoma Detection Using Resnet50 and Random Forest	International Journal of Current Bio-Medical Engineering	2584-1041	2	UGC care
27	Secured Private Data Sharing Based on Blockchain Method in Internet of Things	International Journal of Innovative Research in Technology	2349-6002		UGC care
28	A Novel Hybrid Approach for Deep fake Detection Using Dense Net -121 and Inception V3	International Journal of Intelligent	2185-3118		SCOPUS

		Engineering and Systems,			
29	Advancements in Infant cry Classifications: A Literature Review on Methods and Systems	International Journal of Innovative research in Technology	2349-6002		SCOPUS
30	A Review on Melanoma Skin Cancer Classification Using Deep Learning Techniques	International Journal of Current Bio-Medical Engineering	2584-1041	2	UGC care
31	Anomaly Detection Techniques in Internet of Things: A Survey	International Journal of Emerging Technologies and Innovative Research.	2349-5162	2	UGC care
32	Analyzing and Detecting Plant Pathology through Image Thresholding, Canny Edge Detection, and Morphological Operations	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	2456-3307	2	WoS UGC care
33	Survey on Security issues in Block Chain Technology	Journal of Research in Humanities & Soc. Sciences	2320 771X	2	UGC care
34	Exploring Innovations in Bone Fracture Detection Technologies: A Review	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	2456-3307	2	UGC care
35	Blockchain Based Access Control and Data Sharing Systems for Smart Devices	Journal of Physics: conference series	1742-6596	0.21	Scopus
36	Detection and Categorization of Plant Leaf Diseases using Neural Networks	European Journal of Molecular & Clinical Medicine	2515-8260		Scopus

37	Intrusion Detection system using F-SVM based Layered approach with enhanced MPSO feature selection Algorithm	International Journal of Advanced Engineering Technology	0976-3945	0.2	SCI
38	A Compendious Study on Security Challenges in Big Data and Approaches of Feature Selection	International Journal of Control and Automation	2005-4297	2.9	Scopus
39	Sleep Apna Monitoring using Sensors and Edge Computing	Journal of Advanced Research in Dynamical and Control systems	1943-023X	0.12	Scopus
40	Implementation of 3-Level Security System Using Image Grid Based Authentication System,2023	IEEE Digital Explore	2329-7190	14.91	Scopus
41	Layered Approach for Intrusion Detection Using Mult objective Particle Swarm Optimization,2015	International Journal of Applied Engineering Research.	0973-4562	1.3	Scopus care
42	Layered Approach for Intrusion Detection using PSO	International Journal of Advanced Research in Computer Science.	0976-5697	0.26	Google
43	An Integrated Approach for Intrusion Detection using Computational Methods	Indian Journal of Science and Technology.	0974-6846	0.15	Scopus, web of Science, UGC
44	A Comprehensive study and analysis of Intrusion Detection using Machine Learning Techniques	International Journal of Advanced Research in Management, Architecture, Technology and Engineering	2454-9762	4.23	SCI
45	Intelligent System for Heart Disease	Caribbean Journal of Science	0008-6452	0.2	SCI
46	KISAN	International Journal of Advance Research in Science and Engineering	2319-8354	6.1	UGC-ap proved
47	Enhancing Oman Renewable Energy Sources Using Smart Robot for PV Panel Cleaning	International Journal of Applied Sciences and Management	2394-7926	4.1	UGC approved

48	A Succinct Study and Analysis of Smart Manufacturing: IOT is Driving the Next Industrial Revolution	Journal of Emerging Technologies and Innovative Research	2349-5162	7.5	UGC care
49	Survey on Intrusion Detection Approaches	International Journal of Advanced Research in Computer Science.	0976-5697	0.12	Scopus
50	Digital Mammogram Tumour Preprocessing Segmentation Feature extraction and classification using K Means Algorithm and Distance Based Skeletonization	International Journal of Computer Application.	2250-1797	3.12	Google Scholar
51	A Review on Agent based Intrusion Detection System,	Journal of Environmental Science, Computer Science and Engineering & Technology	2278-179X	2.23	Web of Science
52	Intrusion Detection System using Fuzzy Genetic Approach	International Journal of Advanced Research in Computer and Communication Engineering	2319-5940	0.56	UGC care
53	Survey on Load Balancing in Cloud Computing using Optimization Techniques	Eres International Journal of Computer Networks	2320-6837	-	-others
54	A Survey Communication Methods on Internet of Things	Eres International Journal of Computer Networks	2320-6837	-	others
55	Fire Detection System Using Raspberry PI System	Eres International Journal of Bio Signal and Image Processing	2349-2236	-	others
56	Enhancing intrusion Detection using layered approach with PCA	Asian Journal of Information Technology.	1682-3915	1.03	UGC
57	Virtual support customized for the visually impaired with YOLO technology	Technische Sicherheit	1434-9728	0.1	UGC Care

2. Book authored

S. No.	Book Title with page Nos. and date of publication	Name of the Publisher	Whether National/ International Publisher	ISBN No	No. of co-authors	Whether you are the main author
1	Machine Learning in Data Science using python 2-01-2026	BR publications https://doi.org/10.5281/zenodo.18129906	International	978-81-99714-1-6-8	3	yes
2	Artificial Neural Networks, Deep Learning and Computer Vision Nov 2024	San International Scientific Publishers 10.59646/an/282	International	978-81-98007-8-7-2	4	no
3	Python primer –A Beginners Guide to Mastering the fundamentals	Tekscience publishers		978-93-6228-512-6	3	First
4	Bloch chain Technology: Principles, Design, and Applications	WELL TECH INTERNATIONAL PUBLISHING HOUSE	International	978-81-96280-7-3-4	3	no
5	Bioinformatics	Sree Krishna publishers,2018	National	978-93-5268-887-6	3	no
6	Problem Solving and Python Programming	Sruthi Publishers	National	978-81-95874-5-8-3	4	yes
7	Object Oriented Programming	Shanlax Publications	National	978-93-89648-16	3	First
8	Object Oriented Analysis & Design	Shanlax Publications	National	978-93-89658-16	3	no
9	Operating Systems Overview	Shanlax Publications	National	978-93-87102-81-1	5	First
10	Computer Practice II	TriSea	National	978819-092780-2	3	no

11	Computer Architecture	Shanlax Publications	National	978-93-89658-16	3	N0
12	Computer Architecture and Design	Shanlax Publications	National	978-93-89658-16-3	3	First

3. Chapters published in Books/ Edited Books

S. No	Title with page Nos. and date of publication	Book/ Title editor & publisher	ISBN No	Scopus indexed
1	Fundamentals of Machine Learning and Data Driven Decision Making	Intelligent Technologies for a Smarter World: AI Innovations Across Communication, Energy, Mobility, Security, Social Systems, and Digital Commerce	978-81-322-2537-9	scopus indexed
2	A Real-Time Automated Face Recognition and Detection System for Competitive Examination	Intelligent Systems and Sustainable Computational Models: Concepts, architectures and practical applications Taylor & Francis	9781032527031	Scopus indexed
3	Smart Environmental Monitoring Systems: IoT and Sensor-Based Advancements	Environmental Monitoring using Artificial Intelligence Scrivener Publishing https://doi.org/10.1002/9781394270392.ch3	9781394270361	Scopus indexed

4. Research Guidance

S. No	Degree	No. of Scholars	Degree awarded
1	*M. Phil./ *P.G dissertation	19	yes
2	Ph. D.	8	doing

5. Ongoing and Completed Research Projects/ Consultancy Projects.

S. No	Title of Research Project	Funding Agency	Date of Sanction	Grant/Amount Mobilized	Whether you are the PI/Co-PI/	Status Ongoing /
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				(Rs. Lakhs)	Consultant	Completed
1	Six Day Online Faculty Development Programme Advanced Technologies for Smart Power Systems	ATAL	21-11-2024 10th to 15th February, 2025	1lakhs		
2	Wearable Heart Rate alert system using AI	Tamilnadu state council for Science & Technology	2023-2024	7500Rs		

6. Patent

S. No.	Title	Type of Patent	Date of Filing	Status: Published/Granted as on date	Patent file No.	Design no.
1	AI-Based Blood Sugar Test Device	Design (1st posi)	20-12-2025	Waiting		
2	Self-Healing Body Panel for Automobiles	Design (2 nd posi)	30-12-2025	09-04-2026	230288	485946-001
3	Smart Mirror with Integrated AR Display for Health Monitoring	Design (UK)	26-05-2025	03-06-2025		6447088
4	IOT based water purification Device	Design	20/07/2024	26/8/2024	178878	424039-001
5	IOT based Wearable Device for Heart Rate Monitoring	Design	27/03/2024	03/05/2024	167761	411761-001
6	Mouth Blowing Gesture based Communication & Actuation System	Design	11-11-2019	Published	201941045700	
7	AI-Powered Device for Employee Efficiency Monitoring	Design	19/03/2024	Published 22/05/2024		410991-001
8	AI based Device for Skin Cancer Detection using Image Processing	Design	23/04/2024	30/05/2024		414581-001
9	An Intelligent Insulin Pen	Design	16-05-2020	Published	202141007289A	
10	Distress Sound Source Location System for Swarm Drones by Direction of	Design	05-03-2021	Published	202141007289A	
11	An AI based Insulin Pen Integrated with Smart Patch	Design	23/03/2021	Published -paper	202141012576 A	

	for Visually Impaired Person					
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7. Copyright

S. No	Title	National / International	Date of Filing	Registration no.	Certificate received date
1	AI Powered Framework for Predictive Maintenance in Industrial IOT Networks	National	26/06/2024	L-153515/2024	11/09/2024

8. Awards/ Fellowships

S. No	Title of the Fellowships/Awards	Date of award	Awarding Agency	Whether International/National
1	Best Faculty Advisor Award	2019	KARE	University
2	Motivational Award	2019	KARE	University
3	Certificate of Excellence	2018	South Asian Education Awards.	National
4	Ascend	2025	NICHE	University
5	Excellent Paper Award	2025	International Conference held in Gurgaon, India	International
6	Best Paper Award	2025	AICTE sponsored International Conference on AI in Medical and Health Sciences	International
7	Best Paper Award	2025	ISTE sponsored International Conference on Latest Trends in Science, Engineering and Technology	International
8	Best paper Award Metaheuristic-Driven Optimal Path Planning: A Particle Swarm Optimization Approach for Complex Graph Structures	2026	International Conference on Innovations in Electrical ,Communication and Computing (ICIECC 2026) April 10th	International
9	Best paper Award A Comprehensive Study on Stress Management using Machine Learning and Behavioral Analysis	2026	12th International Conference on Latest Trends in Science	International

			,Engineering and Technology ICLTSET 26	
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9. Invited Lectures/ Resource Person

S. No.	Title / Academic Session	Responsibilities	Date	Organization	Whether International (Abroad)/ International (within country)/ National/State/ University level
1	FDP	Resource Person	23-02-2026	Roever Engineering College	National
2	International conference	Session Chair	25-03-2026	NICHE,IT	International
3	Conference	Judge		NICHE maths	
4	FDP		24-02-2026		
5	Symposium	Session Chair		NICHE (IT Dept.)	
6	National Conference	Session Chair	16-10-2025	NICHE (IT Dept.)	National Conference
7	International Conference	Reviewer	10-01-2026	Heinweiss	
8	International Conference	Reviewer	18-12-2025	Christ University , Bangalore	IEEE conference
9	International Conference	Reviewer	1-08-2025	GH Rasoni College of Engineering, Nagpur	IEEE conference
10	International Conference	Reviewer	4- 07-2025	LNCT Group of colleges	IEEE Conference
11	CSE - Ms.Abirami M K	Doctoral Committee member -External Expert	14-7-2025	Karunya Deemed University	College
12	Department	Department Advisory Committee (DAC) Meeting	1-9-2025	DMI ENGINEERING COLLEGE	DMI

		of AI&DS Department			
13	Technical Session Chair and Invited Speaker	<i>International Conference Gurgaon, India</i>	24-05-2025	Academics Conference Network	International
14	Member	Technical Committee for Naan Mudhalvan Finishing School IIOT Scheme	16-06-2025	NICHE	University
15	Resource Person	FDP on Next Generation Technologies in Avaiation , Intelligent ystems and Green Energy	28-05-2025	MECH NICHE	National
16	Scholar DC member		6-3-2024		College
17	Judge Evaluator - project		2-4-2025	AIDS Kamaraj College of Engineering & Technology	College
18	PDP-Edge Computing powered Artificial Intelligence of Things	Resource Person	16-11-2024	MCA dept , NICHE	University
19	Exploratory Data Analysis and Visualization	Resource Person	09th Sep 2024-14th Sep 2024.	ICT .Electronics and ICT Academy, IIT Roorkee	College
20	FDP on Cyber Forensics,	Guest Lecture		Anna University.	State level
21	International Conference on	Session chair		St.Xaviers Catholic	International

	Applied Mathematics and Theoretical Computer Science			College of Engineering	
22	IEEE International Conference on Computational Innovations and Sustainable Technologies	Reviewer		Christ University	International
23	IEEE Sponsored International Conference (ICCCI'24)	Session chair		Online	International
24	IEEE conference on Emerging Trends in Engineering Technology signal and information Processing	Reviewer		GH Rasoni College of Engineering, Nagpur	International
25	IEEE conference				
26	Hinweis Second International Conference on Recent Trends in Machine Learning and Image Processing ,dec 22-23, 2023	Session chair		Online	International
27	Third International Conference on Computational Intelligence	Chairperson and Reviewer		Sethu Institute of Technology	International
28	Symposium	Chief Guest		Vaigai Engineering College	National
29	Edge Computing	Guest lecture		American College, CSI arts College and Einstein Engineering College	College level
30	Programming and Data Structure	Resource person		St.Xaviers Catholic College of Engineering, Anna University, Chennai	State level

31	Computer Networks	Resource person		St.Xaviers Catholic College of Engineering, Anna University, Chennai	State level
32	Cryptography & Network Security	Resource person		University College of Engineering, Konam by Anna University, Chennai.	State level

10. Journal reviewer

- The journal of Franklin Institute
- The Journal of Supercomputing
- Health Informatics Journal
- International Journal of Engineering Research & Technology
- Nilgiri Journal for Research and Innovation (NJRI)
- **KSII Transactions on Internet and Information Systems**
- Water Resource Management - SCI

11. Presented papers in the conference

S. No	Title of the paper	Conference Proceedings	Name of the conference	Whether International (Abroad)/ International (within country)/ National/State/ University level
1	URD-NET: A Deep Learning Framework for Melanoma Segmentation and Classification using Dermoscopic Images	IT,NICHE ISBN NO. 978-81-9872 60-8-7 Mar 25,2026	INTERNATIONAL CONFERENCE ON FUTURE DRIVEN COMPUTING TECHNOLOGIES [ICFDCT 2026] PROCEEDINGS OF THE	

			25TH	
2	Air Pollution in Agriculture : causes,Impacts,and Advanced Mitigation Framework	Department of Physics and Chemistry	National Conference on Emerging Trends in Material Sciences	National
3	A Topology aware Discrete Particle Swarm Optimization framework for multiobjective network routing	VLB Janakiammal College of Arts and Sciences 24,25-march 2026	International Conference on Global perspective on sustainable computing and intelligent Innovations	Inter
4	Deep Spatial -Temporal Representation Learning for Reliable Gesture to speech conversion using Capsule Networks and Attention Enhanced Temporal conversion	21-23 April 2026 SCAD College of Engineering and Technology Tirunelveli	9th International Conference on Trends in Electronics and Informatics ICOEI 2026	IEEE
5	A Comprehensive Study on Stress Management using Machine Learning and Behavioral Analysis	Karpagam Institute of Technology ,Coimbatore Mar 27,28,2026	12th International Conference on Latest Trends in Science ,Engineering and Technology ICLTSET 26	ISTE sponsored
6	Smart Irrigation System using IoT and Artificial Intelligence	Jan 29th , 2026 St Johns College ,Palayamkottai 978-81-9931 68-2-9	Second International Conference on Advancements in Engineering & Technology	International

7	Integrated Development Environment for Hand Drawn Web Sketch Recognition and Code Generation	April 10th 2026	International Conference on Innovations in Electrical ,Communication and Computing (ICIECC 2026)	International
8	Metaheuristic-Driven Optimal Path Planning: A Particle Swarm Optimization Approach for Complex Graph Structures	April 10th 2026,NICHE	International Conference on Innovations in Electrical ,Communication and Computing (ICIECC 2026)	International
9	Impact of Air Pollution on Agricultural Productivity: A Comprehensive Analytical Study	April 10th 2026, NICHE	International Conference on Innovations in Electrical ,Communication and Computing (ICIECC 2026)	International
10	A Hybrid Deep Learning Model with 1D-CNN and Transformer Encoder for Anomaly Detection in Large Scale IoT Networks 10.1109/ICECA66444.2025.11383033	IEEE Xplore 13 February 2026 05-07 November 2025 979-8-3315-9929-4	2025 9th International Conference on Electronics, Communication and Aerospace Technology (ICECA)	
11	MOON-NET: Deep Learning based Melanoma Skin Lesion Classification using SE-DNet and DBN DOI: 10.1109/ICCCNP63914.2025.11233427	IEEE Xplore : 14 November 2025 18-19 September 2025	2025 IEEE International Conference on Compute, Control, Network & Photonics (ICCCNP)	International
12	Intelligent Energy Consumption Estimation in IoT-Enabled Smart Homes Using a Hybrid CNN-GRU Model	to IEEE Xplore: 29 July 2025 25-26 June 2025	2025 Second International Conference on Cognitive Robotics and Intelligent Systems (ICC -	International

	DOI: 10.1109/ICC-ROBINS64345. 2025.11086295	979-8-3315- 0172-3	ROBINS) Coimbatore, India	
13	The Impact of Social Media in Terrorist Attack Detection: A Comprehensive Study DOI: 10.1109/ICMLAS64557.202 5.10967634	IEEE <i>Xplore</i> : 25 April 2025 10-12 March 2025 979-8-3315- 0574-5	2025 International Conference on Machine Learning and Autonomous Systems (ICMLAS) Prawet, Thailand	International
14	Advancements in Deepfake Detection: A Comprehensive Review of AI-Driven Approaches 10.1109/ICMLAS64557.202 5.10967658	10-12 March 2025	2025 International Conference on Machine Learning and Autonomous Systems (ICMLAS) Prawet, Thailand	International
15	Analysing and Detecting Plant Pathology Through Image Thresholding, Canny Edge Detection, and Morphological Operations	IEEE digital Explore 20-06-2024 Page 10 , July 2024	6th National Conference on Advancements in Computer Science and Engineering New horizon Bangalore	International
16	Leveraging K-Means Clustering for Consumer Mapping in Strategic Business Development Within E-Commerce Retail	Page 82 978-81-9714 80-0-2, May 2025	International Conference on AI-Powered Approaches to Graph Theory and Applications (INAIGA-2025), Dept. of	International

			Mathematics, NICHE,	
17	Advancements in Deepfake Detection: A Comprehensive Review of AI-Driven Approaches	IEEE <i>Xplore</i> : 25 April 2025 10-12 March 2025 979-8-3315- 0574-5	2025 International Conference on Machine Learning and Autonomous Systems (ICMLAS) Prawet, Thailand	International
18	A Blockchain-Powered Approach to Enhancing Data Privacy and Integrity in Internet of Things	TNSCST Sponsored Page 5 978-81-9722 03-2-6 5-3-2025 & 6-3-2025	Advancing Technologies and Innovative Breakthroughs in Computing and Communication ICATIBCC – 2025 , Kamaraj College of Eng. & Tech	International
19	An Integrated Mobile Application for Automated Detection of Plant Leaf Diseases and Pest Infestations DOI: 10.1109/ICISC62624.2024.0 0126	IEEE <i>Xplore</i> : 19 September 2024 Scopus indexed conference proceedings 29-30 July 2024 979-8-3503- 8657-8	2024 8th International Conference on Inventive Systems and Control (ICISC) Coimbatore, India	International
20	Design and Fabrication of an AI Powered Autonomous Robotic System for Real-Time Pest Detection and Monitoring in Agricultural Fields	Gurgaon, India on . th 24 May, 2025 978-93-90150 -25-0 Page 6-13	International Conference on Software Engineering and Computer Science(ICSECS)	International
21	A Multimodal Deep Learning Framework for Text and Visual Media Emotion	CSE , NICHE 2-05-2025	International Conference Future of Connected Systems -IoT ,AI& 5G	International

22	An AIOT -powered Support System for Individuals with Visual Impairments	CSE , NICHE 2-05-2025	International Conference Future of Connected Systems -IoT ,AI& 5G	International
23	Solar Powered Smart Home gardening System using IoT	CSE , NICHE 2-05-2025	International Conference Future of Connected Systems -IoT ,AI& 5G	International
24	A Comprehensive Review on crafting Intelligent Prompts for AI Language Models	CSE , NICHE 2-05-2025	International Conference Future of Connected Systems -IoT ,AI& 5G	International
25	The Intelligent path to sustainability: Big Data tin green management	15-04-2025	National Conference on “ Green Management Practices “	MBA , NICHE
26	Enhancing E-Commerce Retail Strategy with K-means based Consumer Segmentation	CSE , NICHE 2-05-2025	International Conference Future of Connected Systems -IoT ,AI& 5G	International
27	Performance Analysis of 6G Wireless Network Harnessing ultra rapid Data Transfer and Application with latency to connectivity	CSE , NICHE 2-05-2025	International Conference Future of Connected Systems -IoT ,AI& 5G	International
28	A Survey of Quantum Computing in the Context of Computational Complexity: Insights and Implications for Classical Computing	Date: 22nd and 23rd August, 2024 Page 52 ,978-81-979 628-1-3	National Conference on Recent Innovations in Science and Technology for Sustainability (NCRISTS-24) ,	National

			department of Physics, NICHE	
29	National Conference on Recent Innovations in Science and Technology for Sustainability (NCRISTS-24) “A Survey of Quantum Computing in the Context of Computational Complexity: Insights and Implications for Classical Computing”	Conference Proceedings ISBN: 978-81-979628-1-3	NICHE	National
30	“LeafLens: An Exquisite Mobile Application for Precise Identification of Plant Damage and Pest Infestation”	March 2024 978-93-340-3806-4	International Conference on Computational Intelligence & Data Analytics-	International Conference
31	Autodietry: A smartphone application for food Recognition and calories Estimation	Presented paper	Conference	International
32	An Integrated Approach for Intrusion Detection	Presented paper	Conference	International
33	Approaches for Intrusion Detection	Presented paper	Conference	International
34	Knowledge Mining for trifle Management using Soft Computing	Presented paper	Conference	International
35	Grid Computing	Presented paper	Conference	national
36	Nanotechnology and Biosensors	participated	Seminar	International
37	Coverage Problem in Irregular Sensor Region of Wireless Sensor Networks	Presented paper	Conference	International

12.Events Organised

Name of the event	Resource person	Type of the event	Organization	Target audience	Date
Empowering word ,Power point and Excel using AI	Dr Ramalakhs mi	Hands on Training	NICHE	All Non Teaching faculty of the University	21-02-2026
IOT Edge & Analytics : Build your own smart sensor Network	Dr R.Jemila Rose	workshop	St. Xaviers catholic college of Engineering	3 rd student	31-10-2025
IoT :Connecting the physical and Digital words	Mr.T.Lathis Basker	Guest Lecture		IV year	31-10-2025
Digital Productivity with AI	Dr R.Jemila Rose	Workshop	St. Xaviers catholic college of Engineering	3 rd student	28-08-2025
Advanced Technologies for Smart Power Systems	Many	Six days ATAL Sponsored Online FDP	NICHE	Faculty (India)	10th to 15thFebruary, 2025
Extension Activity	Help	Activity	CSI Transitional Resource Centre	Faculty	31-05-2025

Unlocking the Power of Data : A one day Science Intensive	Dr Naveen Sundar	Guest Lecture	Smart Class room CSE	4 th year students	31-07-2024
Exploratory Data Analysis and Visualization	Dr Jemila Rose	Workshop	Smart Class room CSE	3 rd	1-08-2024
Machine Learning and Its' Application	Dr.Jeya Ranjani	Webinar	Smart Class room CSE	2 nd	29-07-2024

13.Faculty Development Programme / Workshop/ Seminar

S. No	Event Title	National / International	Type of Event	Date	Organiser	Online/offline
1	Advanced Research Methodology: Ethics and AI to Publication and Funding	National	FDP	18-05-2026 to 26-05-2026	Godavari Institute of management and research , jalgaon.	Online
2	Smart Manufacturing and Industry 4.0	National	FDP	18-05-2026 to 26-05-2026	St.Xaviers Catholic College of Engineering	Offline
3	Advanced Materials and Manufacturing Technology	Inter	FDP	4-4-2026 to 11-04-2026	Stella Mary's College of Engineering	
4	AI in Education : Innovation, Adaptation & Resilience	International	National Webinar	2-9-2025 , 3-9-2025	MQI College of	

					Management	
5	Recent Trends in Cutting-Edge Automotive Technology	ATAL	FDP	18/08/2025 to 23/08/2025.	Arjun College of Technology	
6	Smart and Sustainable Waste Management Using IoT and Data Analytics	ATAL	FDP	15/09/2025 to 20/09/2025.	Madanapalle Institute of Technology & Science	
7	Digital Productivity with AI	National	Course -100	29-8-2025	Passport to Earning (P2E) Skills, UNICEF	
8	Generative AI Tools	National	LIVE WORKSHOP	23-07-2025	Skill Nation Certification of completion	
9	Internet of Things	National	FDP	02 Jun 2025 to 06 Jun 2025	Noorul Islam Centre for Higher Education, Nagercoil-ICT	
10	Revolutionizing Classrooms: Modern Methods and Digital Tools	National	FDP	26.05.2025 to 30.05.2025	SIMATS Engineering, SIMATS, Thandalam, Chennai	
11	Academics @2047	National	FDP	23-4-2025 to 29-04 -2025	MBA, NICHE	
12	Strategic Portfolio Management Balancing Risk and Return for Growth	National	Management Development Programme	12-04-2025	ITM, Gwalior	

13	Next Generation Aerospace and Manufacturing Technologies	Inter	FDP	26-05-2025 to 30-05-2025	Faculty of Aeronautical and Space Technology, Noorul Islam Centre for Higher Education
14	Xposure	Visit	Workshop	21st April 2025	Technopark Campus, Trivandrum ICT Academy supported by Toonz Animation India Pvt Ltd
15	Industry 4.0: Transforming Manufacturing through Innovation	ATAL	FDP	24/02/2025 to 01/03/2025	Fortune Institute of International Business
16	Workflow Automation with AI in Excel/ Word	Univ	FDP	December 16, 2024 to December 20, 2024	Feather Software's in association with the Department of Software Engineering

					and IQAC.	
17	Exploratory Data Analysis and Visualization	Inter	FDP	Sep 9 - 14 th sep 2024	St. Xaviers Electronics and ICT Academy, IIT Roorkee	
18	Sustainable and Intelligent Systems for Engineering Innovation	Inter	FDP	6-01-2025 to 11-01-2025	Stella Mary's College of Engineering IPE and SAE India	
19	Usage of Deep Learning , Machine Learning and Artificial Intelligence towards Smart Mobility	Inter	FDP	16- 21 Dec 2024	Koneru Lakshmaiah Education Foundation, Deemed To Be University, Bachupally Campus , Hyderabad	
20	IPR Awareness Programme	Univ	Workshop	11,12 Nov 2024	NICHE Patent Information Centre , TNSCST	
21	Artificial Intelligence , Machine Learning & Deep Learning	Univ	Train the Trainer Workshop	25 to 30 nov 2024	Intel Unnati Lab , NICHE	

					Edgate Technologies	
22	AR, VR ,MR , 3 D Modelling	Inter	Webinar	24,25 aug 2024	Z2 Learning	
23	Microsoft Power BI Data Analyst Associate	National	FDP	25 Jun 2024 to 29 Jun 2024	ICT	Offline

Online certification

Title of the course	Organization	Month, year	Certificate no.
Advanced IoT Systems: Architecture, Protocols, and Scalability	TECH FORUM RESEARCH FOUNDATION	Mar ,2025	TFRFCC5631
Understanding 5G: From Basics to Applications	TECH FORUM RESEARCH FOUNDATION	Dec,2025	TFRFCC5635

I certify that the information provided is correct as per records available with the university and/or documents enclosed along with the duly filled proforma.



Signature of the Applicant

Place: Thuckalay

Date: 10-01-2026