Dr. C. Poongodi

+91- 9843560116 | poongodi.c@vcew.ac.in

Professor & Head, Department of IT,
Vivekanandha College of Engineering for Women, Trichengode, Namakkal.

Scopus ID: 57203424591   WoS Researcher ID: AAM-4519-2020   ORCHID ID:0000-0002-4004-9461

Vision Statement

To provide value based education for the students as well as to make them industry ready and to bring the institution to be a globally recognized engineering institute

Teaching

I would like to encourage active learning in my classroom. My role as an instructor is to make the students to effectively create, obtain, and practice the knowledge obtained. I continuously upgrade my technical skills through various faculty development programmes and certification courses. I am very eager to develop new courses related to Wireless Networks and Internet of Things. Like to build across the institute a culture of excellence in teaching and learning with needed performance and accountability from all support activities.

Research& Industry Collaboration

To establish collaboration with industries to impart high-end technical skills for enhancing employability of the students and to motivate the students to be a part of industry-partnered incubation centers for encouraging entrepreneurship. To make my department to be a center of excellence in Internet of Things by accomplishing good growth in research outcomes in terms of Quality Publications in Tier-I journals & conferences, Sponsored R&D Projects, Patents, Technology Products, Books & Monograms etc.

Service

Teaching and research will be my primary focus, but I also expect to contribute to the academic community at my institution by proper counseling to the students and to collaborate with other colleagues for better teamwork to achieve the vision of the institute.

DoB   *: 03.06.1980*

Age   *: 41 Years*

Experience   *: 18.6 Years*

Qualification:

Name of the Degree	Specialization/ Branch	Year of Passing	Name of the College / School	Name of the University	%	Class
Ph.D.	Information and Communication Engineering	2013	Anna University, Chennai	Anna University, Chennai	-	-
M.E.	Computer Science and Engineering	2002	Kongu Engineering College, Perundurai	Bharathiar University	74	I
B.E.	Electronics and Communication Engineering	2001	Maharaja Engineering College, Avinashi	Bharathiar University	73	I
H.Sc.	--	1997	Government Girls Higher Secondary School, Perundurai.	State board	88	I
SSLC	--	1995	Government High School, Vijayamangalam	State board	88	I

Fellowship Undergone:

Summer Research Fellowship sponsored by **National Academy of Sciences, Bangalore** in **University of Hyderabad**from April to May 2016.

Awards and Recognitions:

Sl. No.	Name of the Award	Awarding Organisation	Year of Award
1	Best Faculty Award	Kongu Engineering College	2005-2006
2	Best Innovation Award	TBI@KEC,NaN,CII and Yi	2016-2017

Experience:

Sl. No.	Name of the Organization	Designation	Period		Experience	
			From	To	Years	Months
1	Vivekanandha College of Engineering for Women	Professor & Head	18.01.2021	Till date	0	6
2	Kongu Engineering College	Associate Professor	1.6.2016	05.01.2021	5	0
3	Kongu Engineering College	Assistant Professor (Selection Grade)	01.12.2011	30.5.2016	5	2
4	Kongu Engineering College	Assistant Professor (Senior Grade)	01.07.2007	30.11.2011	4	4
5	Kongu Engineering College	Assistant Professor	12.12.2002	30.06.2007	3	6
				Teaching	**18**	**6**

Grants Received:

Sl. No.	Title of the Programme	Period	Sponsoring Agency	Amount Sanctioned
1	Seminar on Information Security in Medical Informatics	2010-2011	ICMR	Rs.25000.00
2	Seminar on Role of Nano Warehousing in Defence	2011-2012	DRDO	Rs.25000.00
3	Seminar on Stochastic modeling and probabilistic calculation for wireless networks	2013-2014	NBHM	Rs.75000.00
4	IoT- Vision, Architecture, Building Applications and Research Challenges	2018-2019	AICTE	Rs.4,25,000.00
5	IoT based Prepaid Electricity	2018-2019	IIC	Rs.12,500
			Total Funds Received	**Rs: 5,62,000.00**

Journal Publications:

Sl. No.	Title of the Paper	Name of the Journal	Month & Year of publication	SCOPUS/SCI /WoS Indexed
1	A geodesic deployment and radial shaped clustering (RSC) algorithm with statistical aggregation in sensor networks	Turkish Journal of Electrical Engineering & Computer Sciences	October 2020	**SCI**
2	Multi-Objective Optimal Deployment of Throwboxes in Delay Tolerant Networks for the Internet of Things Environment	Journal of Evolutionary Intelligence :Springer Publications	September 2020	**SCI**

3	Vibration Analysis of Nylon Gear Box utilizing Statistical Method	Materials Today: Proceedings	May 2020	**SCOPUS**
4	Evaluation of data mining classifiers for anonymized and non anonymized data	Test Engineering and Management	April 2020	--
5	Minimum Energy Consumption Objective Function For RPL In Internet Of Things	International Journal Of Scientific & Technology Research Volume 9, Issue 01	January 2020	**SCOPUS**
6	Non-dominated Sorting Genetic Algorithm-II for Throwbox Deployment in Delay Tolerant Networks	International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-4	November 2019	--
7	Energy Aware Head Selection and Cluster Construction to Maximize Sensor Network Lifetime	International Journal On Engineering Technology and Sciences, ISBN:978-81-89843-58-8.	March 2015	-
8	Region based find and spray scheme for cooperative data communication in vehicular cyber-physical systems	Intelligent Automation & Soft Computing, Pages 1-7	August 2016	**SCI**
9	Optimization of throw box deployment in delay tolerant network	International Journal of Computational Research and Development (IJCRD) ISSN (Online): 2456 - 3137 Volume 1, Issue 2	2016	--
10	Detection and Defense Scheme against Selfish Nodes in MAC-Layer	CiiT Wireless Communication, Vol 8, No 1	2016	--
11	GCCR: An Efficient Grid Based Clustering and Combinational Routing in Wireless Sensor Networks"	Wireless Personal Communications, DOI 10.1007/s11277-017-4554-z	February 2015	**SCI**
12	Cluster Head Bundle Delivery Protocol for Delay Tolerant Networks	Proceedings of CiiT International Journal of Wireless Communication,	November 2010	--
13	An Effective Find and Replicate Strategy for Data Communication in Intermittently Connected Wireless Ad Hoc and Sensor Networks	International Journal of Distributed Sensor Networks (ISSN: 1550-1477 (Online)), Vol. 2012, Article ID 452686	October 2012	**SCI**
13	Optimized Replication Strategy for Intermittently Connected Mobile Networks	International Journal of Business Data Communications and Networking, Vol.8, No. 1	January 2012	**SCOPUS**
14	Modified Bubble Rap Routing for Intermittently Connected Networks	International Journal of Computer Applications	February 2013	--

Industrial Consultancy:

Sl. No.	Name of the Consultancy	Name of the Industry	Revenue Generated
1	Website development	Sree Annai Food Products, Salem.	Rs.7,600.00
2	Website development	Jayamanjunath Mills-Coimbatore	Rs.6,220.00
3	E-dashboard for attendance Monitoring	SACL,Pallakoundanpalayam	Rs.50,000.00
4	Safety Module Development	GilbargoReeders Root, Coimbatore	Rs.48,000.00

Patent Obtained:

Patent Application Number: 202011004965

Title: Machine Learning Based System For Prediction Of Setup Security-Failure

of Artificial Lift

Conference Publications:

Sl. No.	Title of the paper	Name of the Conference	Level	Organised By
1.	Encounter Based Spray and Find Routing Protocol for Intermittently Connected Networks.	NCVIT-2011	National	KSR College of Engineering, Trichengodu
2.	Encounter Based Improved Spray and Find Routing Protocol for Intermittently Connected Networks.	EICA-2011	National	GCT, Coimbatore
3.	Efficient Region Based Routing Scheme in Intermittently Connected Networks	NCIT-2012	National	Pondicherry Engg College
4.	Optimized Routing in Intermittently Connected Delay Tolerant Network	NCIT-2012	National	Pondicherry Engg College
5.	Optimal Based Routing in Intermittently Connected Delay Tolerant Network	NaCoCA'12	National	EBET Group of Institutions

6.	Density Aware Multi-Hop Periodic Spraying for ICN	ICRTCT 2013	International	NGP, Coimbatore
7.	Multi-Hop Periodic Spraying based on density for ICN	NCVIT'13	National	GCT, Coimbatore
8.	An Improved Multi-period Spraying for Intermittently Connected Networks	IETSD'12	International	BIT, Sathy
9.	Bubble Rap Routing based on source spaying for Intermittently Connected Networks	NCVIT'13	National	GCT, Coimbatore
10.	An Efficient Data Gathering Using Mobile Sink in Wireless Sensor Networks	NCIIT-2014	National	BIT, Sathy
11.	Sink based Data Gathering for Wireless Sensor Networks	ICECC-2014	International	Tagore Engg College, Chennai
12.	An Efficient Data Gathering Using Mobile Sink in Wireless Sensor Networks	NCICT 2014	National	Sri Krishna College of Technology
13.	Network Coding Based QoS Routing Protocol for Wireless Mesh Networks	DSTE sponsored NCIC 2015	National	Pondicherry Engineering College
14.	Improved OLSR with Network Coding for Wireless Mesh Networks	NCIICT 2015	National	Adithya Institute of Technology, Coimbatore
15.	Throughput Improvement Based QoS Routing Protocol for Wireless Mesh Networks	NCICIT 2015	National	Anna University Regional Centre, Coimbatore
16.	Empowering MANET Security by Neglecting the Flooding Attacks	NCIICT 2015	National	Adithya Institute of Technology, Coimbatore
17.	Detection of Flooding Attacks to Strengthen the Security in Ad hoc Networks	NCCTIT 2015	National	SRM University

18.	Energy Aware Head Rotation and Cluster Construction to Maximize the Sensor Network Lifetime	NCIICT 2016	National	Adithya Institute of Technology, Coimbatore
19.	Sink Originated Unique Algorithm for Clustering and Routing to forward Aggregated Data in Wireless Sensor Networks	Intelligent Computing and Communication	International	Kongu Engineering College
20.	Enhancement of Routing Protocol for Low Power Lossy Network for Internet of Things	Intelligent Computing and Communication	International	Kongu Engineering College
21.	Mitigating DoS attacks in IoT using Supervised and Unsupervised Algorithms–A Survey	Materials Science and Engineering	International	Kongu Engineering College

Research Guidance:

Student Name & Reg.No	Course (Ph.D./ M.Phil)	University	Designation & Work place	Full Time/ Part Time	Status
Mr.S.B.Gopal 20144691122	Ph.D.	Anna University , Chennai	Assistant Professor, Dept.of ECE , Kongu Engineering College Perundurai,	Part Time	Pursuing
Mr.H.Muthukris hnan 21144691284	Ph.D.	Anna University , Chennai	Assistant Professor, Dept.of IT , Kongu Engineering College Perundurai,	Part Time	Pursuing

Text books/Book Chapter published:

Sl. No.	Name of the Book	Publisher	Authors	Indexing details
1	System Software	Charulatha Publishers	C.Poongodi R.Manjula Devi	---
2	Multidiscip. Perspect. onTelecommun., Wirel. Syst., and Mob. Computing	IGI Global	C.Poongodi&A.M.Natarajan	**ISBN-13** : 978-1466647152

3	The Role of Blockchains for Medical Electronics Security	Auerbach Publications-Essential Enterprise Blockchain Concepts and Applications, 231-262	C Poongodi, K Lalitha, RK Dhanaraj	9781003097990
4	Healthcare Internet of Things–The Role of Communication Tools and Technologies	Chapman and Hall/CRC-Blockchain, Internet of Things, and Artificial Intelligence, 331-348	K Lalitha, DR Kumar, C Poongodi, J Arumugam	9780429352898

Faculty Development Programme organized (Self Supporting):

Sl. No.	Title of the Programme	Period
1	Two days National Level Workshop on QualNet	17.12.10 to 18.12.10
2	Two days National Level Workshop on QualNet	22.11.12to 23.11.12
3	Two days National Level Workshop on QualNet	07.08.13 to 08.08.13
4	Two days National Level Workshop on QualNet	19.09.14 to 20.09.14
5	Two days National Level Workshop on Wireless Network Simulators	05.9.14 to06.09.14
6	Two days National Level Workshop on Internet of Things	11.09.15 to 12.09.15

National Conferences Organized:

Sl. No.	Title of the Programme	Period	No. of Participants
1	Computing and Information Systems	14.3.14	30
2	Computing and Information Systems	6.2.2015 to 7.2.2015	60
3	Computing and Information Systems	10.2.17	40

Value Added Courses Offered For Students:

Sl. No.	Title of the Programme	Period	No. of Participants (Students)
1	Value Added Course on QualNet	13.07.10 to 27.08.10	22
2	Value Added Course on QualNet	01.08.11 to 19.09.11	18
3	Value Added Course on QualNet	11.06.12 &16.06.12	21
4	Value Added Course on QualNet	15.7.13 to 10.10.13	19
5	Value Added Course on QualNet	30.6.14 to 1.8.14	18
6	Value Added Course on Internet of Things	14.8.17 to 12.12.17	13
7	Value Added Course on Building IoT Projects from the Scratch	1.3.2019 to 2.3.2019	10

Certifications Completed:

- *NPTEL Courses on*Effective Engineering Teaching In Practice

One credit courses Offered for students:

Sl. No.	Title of the Programme	Period	No. of Participants
1	14VAC23-Algebra and Number Theory	14.12.16 to 23.12.16	90
2	14VAC23-Algebra and Number Theory	01.03.18 to 5.04.18	102
3	14VAC23-Number Theory Concepts for Security	9.2.2019 to 5.3.2019	90

Seminars / Workshops / SDPs / FDPs / Industrial Training etc. attended (Last 5 Years):

Sl. No.	Seminar / Workshop / STTP / SDP / FDP / Conference	Topic / Title	Organized by	Period	
				From	To
1	Research Fellowship	Research fellowship at Hyderabad University, Hyderabad	National Science Academy, Bangalore	15.4. 16	9.6.16
2	Contest	Smart City Kovai: A way forward	CII	5.10.2016	5.10.16
3	Industrial training	Internet of Things	Vi Microsystems Pvt.Ltd.,Chennai	22.06.17	24.06.17
4	Seminar	SERB sponsored National-	KEC	17.12.16	--

		Level Seminar on Climate Smart Agriculture: Multi-Disciplinary Approaches Using IOT, Cloud and Big Data			
5	Workshop	Living your purpose workshop series-Operation Trident	Living your purpose foundation	1.12.2018	3.12.2018
6	FDP	Design Thinking	Infosys	26.11.2018	28.11.2018
7	FDP	Effective Engineering Teaching In Practice	NPTEL	Jan 2019	Feb 2019
8	SDP	Advanced C Programming	BYTS	April 2019	--
9	Industrial Training	Python Programming	Amphisoft Technologies , Coimbatore	27.5.19	31.5.19

Panel/ Board member in other Institute:

Sl. No.	Positions held	Institution	Period
1	Academic Council Member	Kongu Engineering College, Perundurai	2015-2017
2	BoS Member	Sri Krishna College of Technology, Coimbatore	2020 to till date

Membership in Professional Bodies:

S.No.	Name of the Society	Nature of Membership
1.	Indian Society for Technical Education - ISTE	Life Member
2.	Computer Society of India - CSI	Life Member

Subjects Taught:

S. No.	Name of the Subject
1	Microprocessor and Micro controllers
2	Operating Systems
3	Computer Communication Networks
4	Mobile Communication

5	Internet of Things
6	Computer Graphics
7	Object Oriented Programming
8	Problem Solving and Programming
9	System Software
10	Principles of Communication
11	TCP/IP
12	Ethical Hacking
13	Wireless Networks

Industry Collaboration &MoU Signed:

1. iExempler, Coimbatore
2. Sakthi Auto Components Pvt Ltd, Pallagoundanpalayam
3. HutFresh Retails Technologies Pvt Ltd, Kanchipuram

Reviewer of Journals:

1. Wireless Personal Communications
2. British Journal of Mathematics and Computer Sciences
3. IET Wireless Sensor Systems

Invited Talks:

Sl.	Name of the topic Delivered	Institute Name	Name of the Event	Date of the Event
1	Anna University sponsored FDTP on Operating Systems	SONA College of Technology, Salem	FDTP	07.12.13
2	Multicore Architecture and Programming	Erode Sengunthar Engineering College	Anna University Approved FDTP	25.11.16
3	Internet of Things	Kongu Arts and Science College, Erode	Workshop	06.12.18 to 07.12.18
4	Seminar on Mobile Cellular Networks	Kongu Engineering College	DRDO Sponsored	08.01.2011
5	Mathematical Modeling and Simulation	Kongu Engineering College	NBHM	11.3.2011
6	Workshop on Wireless Networks and Network Simulators	Kongu Engineering College	--	17.9.2011
7	Routing Issues in Intermittently Connected MANETs	Kongu Engineering College	--	11.05.2013

8	Training in QualNet	Kongu Engineering College	--	17.05.2013
9	Seminar on Wireless Sensor Networks	Kongu Engineering College	--	6.9.2014
10	Novelty in Applications of Graph Theory to the Internet of Things	Kongu Engineering College	NBHM	18.7.2019
11	International Conference on Recent Trends and Challenges in Healthcare Informatics	Kongu Engineering College	Pre-Workshop on AICTE sponsored	5.7.2019
	AICTE FDP IoT and its Applications	New Horizon College of Engineering , Bangaluru	AICTE	25.9.2020
12	AICTE FDP Intelligent Object and Technologies for building applications on Data Science with ML and IoT	KSR CT, Trichengode	AICTE	16.3.2021
13	ATAL FDP on IoT	GCE, Dharmapuri	ATAL	18.3.2021