Department of Computer Science and Engineering				
Name	Dr. D. Kavitha			
Date of Birth	07.05.1984			
Unique ID	FD2115			
Educational Qualifications	M.E.,Ph.D.,			
Designation	Associate Professor			
EmailID	d.kavitha@sethu.ac.in kavithadurairaj1984@gmail.com			
AlternateEmail ID				
Experience	Industry	Teaching	Others	Total
	NIL	10 Years& 8months	(6 Yrs Doing Ph.D period)	16 Y 8 M
Dateof Joining the Institution	02.06.2025			
Area of Specialization	Network engineering			
Courses taught	*UG* *Programming Language* *Micro processor* *Computer system engineering* *Embedded systems* *Cryptography and network security* *Data communication and networks* *Compiler design* *Grid computing* *Object Oriented Programming Language.* *Data mining and Data warehousing* *Total quality management* *Digital signal processing* *Mobile Adhoc Networks* *Medical Electronics* *Microprocessor and Microcontroller* *Cryptography and Network Security* *Principles Of Management* *Wireless Sensor Networks* *SIT: Full stack Web Development*			

	Artificial Intelligence and Machine Learning ***PG*** *Advanced Networks* *High speed networks* *Network security* *Mixed signal IC test and measurements* *Security Solutions in VLSI* *SIT: Principle of Data Science* *Data Analytics and Visualization*
Research Focus	*Software Defined Network, Network Security, Multicore Processing, Internet of Things, Network Virtualization, Cyber Security, Edge computing.*
Research guidance (Number of Scholars)	*Nil*
Subject Competency	***Networking and Security domain***

No. of papers published	National Journals	International Journals	Conferences
	02	***4 (1-sci, 2-scopus, 1-scopus conference)***	***04***

PG Specialization	Network Engineering
Ph.D.Specialization	Computer Science and Engineering
Projects Carried out	*Nil*
Patents (Filed & Granted)	*Nil*
Technology Transfer	*Nil*
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	*Nil*

AcademicCredentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E.	Electronics and Communication Engineering	Anna University, Chennai	2001-2005
PG	M.E.	Network Engineering	Anna University, Chennai	2006-2008
Ph.D.	Ph.D.	Computer Science and Engineering	Kalasalingam Academy of Research and Education	2025

Details of Journal Publication:

SCI Publications

1. Kavitha, D., & Ramalakshmi, R. (2024). Machine learning-based DDOS Attack Detection and Mitigation in SDNs for IoT environments. Journal of the Franklin Institute, 361(17), 107197.

Scopus Journals

1. Ramalakshmi, R., & Kavitha, D. (2024). DDoS Attack Mitigation using Distributed SDN Multi Controllers for Fog Based IoT Systems. International Journal of Intelligent Systems and Applications in Engineering, 12(4s), 57-69.

2. D. Kavitha, R. Ramalakshmi, "Fog-based SDN for DDOS Attack Mitigation in IoT Systems: A Survey", *International Journal of Future Generation Communication and Networking*, Vol. 13, No. 4, (2020), pp.4161–4173.

Scopus Conferences

1. Kavitha, D., Ramalakshmi, R., & Murugeswari, R. (2019, December). The Detection and Mitigation of Distributed Denial-of-Service (DDOS) Attacks in Software Defined Networks using Distributed Controllers. In 2019 IEEE International Conference on Clean Energy and Energy Efficient Electronics Circuit for Sustainable Development (INCCES) (pp. 1-5). IEEE.

National / International Journals

1. C. M. Kalaiselvi and D. Kavitha, International Journal of Advanced and innovative Research published the paper titled "an efficient low power s-box implementation for AES using power gated PLA" vol.04, issue 11, Nov 2015.

2. D. Karthikeyan and Kavitha. D, International Journal of engineering and science published the paper titled "BCH decoder implemented on CMOS/NANO device digital memories for fault tolerance system design" vol.5, issue 5, may 2015.

Details of Conference attended:

National Conferences

1. D. Kavitha and K. Vimaladevi "Flow control using receiver side control algorithm in wireless networks", National conference on Advanced computing Technologies, Bannari Amman Institute of technology, Sathyamangalam, April 2008.

2. C. Velmurugan and D. Kavitha "Improving reactive mobility for collaborative target detection in wireless sensor networks", fifth National Conference on Recent Trends in information and communication technology held during 02-03 April 2012.

3. Senthil. P and D. Kavitha "Minimizing overload in mobile adhoc networks using EDRP" national conference on advanced computing and information technology held during 3rd may 2013 in Jerusalem college of engineering, Chennai-100.

4. Vinod Kumar. A and D. Kavitha " Implementation of multi cloud architecture for many task computing" national conference on advanced computing and information technology held during 3rd may 2013 in Jerusalem college of engineering, Chennai-100.

Details of Book Chapter and Books Published: NIL
Details of Patents Filed and Granted: NIL
Expert Lecture Delivered: NIL

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