



Dr.V.CERONMANI SHARMILA

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SUMMARY

Motivating and talented Professor, driven to inspire students to pursue academic and personal excellence. Consistently strive to create a challenging and engaging learning environment in which students become lifelong scholars and learners. Exceptional track record of research success with multiple published articles in peer reviewed journals.

HIGHLIGHTS

- Accomplished researcher in Cyber Security & MANET
- Innovative Thinker
- Graduate Mentor
- Resourceful academic advisor
- Inspiring Lecturer & Facilitator
- SME - Pentester
- IET and Lifetime CSI Member
- D-Link Certified Trainer
- IBM-ICE Certifications
- FCE certified from Cambridge
- NPTEL Online Certifications
- Trainer in VLSI domain
- Personable and approachable

ACCOMPLISHMENTS

- Authored numerous articles published in Scimago Ranked journals, including Soft Computing (Springer), Journal of Computing and Information Technology, Journal of Computer Science, Artificial Intelligence & Evolutionary Computations in Engineering Systems (Springer) and Knowledge Computing and its Applications (Springer)
- Reviewer of Advances in Science, Technology and Engineering Systems Journal
- Developed ICT based teaching materials
- Installed Private Cloud Setup in University Premises.
- Employed innovative teaching pedagogy / instructional methods to deliver the lecture.
- Utilized OBE practices such as activity based cooperative learning and innovative methods (online exam using mind mapping tool) for assessing the students.
- As a Convener organized a DRDO sponsored National Conference on Intelligent Information Systems – NCIIS-2017.

- Conducted workshops/seminars on Ethical Hacking and Cyber Security, Ransomware Attacks, Outcome Based Education (OBE), Social Networking and Soft Skills for teaching and non-teaching staff members.
- Organized Digital E-Week, industrial visits and internships for students.
- Staff coordinator of Google Student Ambassador (GSA) and motivated the students to become GSAs.
- Started Kryptos Security Club and Developer Student Club (DSC) and enriched the practical skillset of students.
- Around 50 students have undergone **International** - Semester Exchange, Summer, Research and Internship Programs under my guidance.

EDUCATION

Degree	Discipline	Year of Passing	University
Ph.D	Information Technology	2016	Hindustan Institute of Technology and Science, Chennai
M.E	Communication Systems	2007	Anna University, Chennai
B.E	Electronics and Communication Engineering	2000	Madras University, Chennai

WORK EXPERIENCE (Academic)

Designation	Institution	Duration	No. of Years
Professor & HOD	Hindustan Institute of Technology and Science	01.09.2021 to till date	0.2 years
Associate Professor & HOD	Hindustan Institute of Technology and Science	14.05.2018 to 31.08.2021	3.3 years
Associate Professor	Hindustan Institute of Technology and Science	27.07.2016 to 13.05.2018	1.10 years
Assistant Professor (SG)	Hindustan Institute of Technology and Science	01.07.2010 to 26.07.2016	6 years
Assistant Professor	Hindustan Institute of Technology and Science	01.07.2008 to 30.06.2010	2 years
Sr. Lecturer	Hindustan College of Engineering	03.09.2007 to 30.06.2008	0.10 years
Lecturer	Hindustan College of Engineering	24.06.2003 to 02.09.2007	4.2 years
Total			18.4 years

WORK EXPERIENCE (Other Roles)

Designation	Institution	Duration
Head-Centre for Networking and Cyber Defence (CNCD)	Hindustan Institute of Technology and Science	01.07.2021 to till date
University Scholarship Officer	Hindustan Institute of Technology and Science	01.04.2017 to 28.02.2021

WORK EXPERIENCE (Industry)

Designation	Name of the Organization	Duration	No. of Years
Project Coordinator	Aadhityaa Infomedia Systems	01.10.2000 to 20.06.2003	2.9 years
Design Engineer	Silex Logic Private Limited	03.05.2000 to 30.09.2000	5 months
Total			3.2 years

LECTURE COURSES HANDLED

- IT Security Fundamentals
- Cyber Physical Systems
- IT Security Operations
- IT Security Engineering
- Identity and Access Management
- IT Security Assessment and Testing
- Cyber Crime Investigations and Digital Laws
- Engineering and Design
- Mobile Application Development
- Mobile Computing
- Cloud Deployment Model
- Managing the Cloud
- Cloud Computing Architecture
- Information Coding Techniques
- Digital Principles and System Design
- Software Engineering

RESEARCH AREAS OF EXPERTISE

Cyber Security, Computer Networks (Mobile Ad Hoc and Sensor Networks), Image Processing, Cloud Security, Internet of Things (IoT), Applications of Graph Theory and Very Large Scale Integration (VLSI)

RESEARCH GUIDANCE

- Guiding Five Research Scholars (of which one research scholar submitted thesis and one research scholar submitted synopsis)
- One Research Scholar obtained PhD

PUBLICATION

- Published around 65 Research Papers in SCI/Scopus/WOS Journals, Book Chapters and Conferences.

Link for Publication : <https://shorturl.at/fijD6>

PATENT

- Patent Filed – Securing Critical Digital Assets of Chemical Industries using Secure Development Operational Environment (SDOE) Framework. (Application Number – 2021102532, Date of Filing: 13.05.2021)
- Patent Published – Smart Lighting Solution using Hexagon Structured Optic Mirror Pipe. (Application Number – 201841015766, Date of Filing: 26.04.2018 & Date of Publishing: 08.11.2019)

INVITED TALKS

- Invited Speaker St. Joseph's College of Engineering on the topic Pen Testing Methodologies during ATAL FDP on Cyber Security on 28th August 2020.
- Invited Speaker at KCG College of technology on the topic "Blockchain Technologies" during CSI Sponsored Two Days Workshop on Block Chain Technologies and its Applications on 5th July 2019.
- Invited Speaker at University of Bradford, UK on the topic "Cyber Security in the 21st Century and Future of Cyber Training" on 04th April 2019.

KNOWLEDGE ON VULNERABILITY ASSESSMENT AND PENTESTING TOOL'S

- Reconnaissance – virustool, whois, netcraft, archive, site, google dorks (intitle, inurl), theHarvester
- DNS enumeration – host, amass, altdns, dig, assetfinder, subfinder
- Link discovery – hakrawler, gospider
- Bruteforcing – dirsearch, ffuf
- scanning – scapy / netdiscover, nmap, nslookup, zenmap, sublist3r, knockpy, subbrute
- Content Discovery – dirbuster
- packet capture – wireshark
- metasploit – msfconsole, zaproxy
- IDS – snort, tripwire
- Password Cracking – john the ripper, NTLM password cracker
- Documentation – cherrytree

CERTIFICATIONS OBTAINED

- Completed FDP on Virtual FDP on Data Science using R organized by ICT Academy Inbox from 8th to 12th March 2021 organized by ICT Academy.
- Attended STTP on Developing Cyber Security Models using Statistical and Deep Learning from 22nd to 27th February 2021.
- Completed three days online certification program on DSCI Certified Privacy Lead Assessor Training Program from 18th to 20th February 2021.
- Attended FDP on Cyber Security organized by NIT Patna and MNIT Jaipur from 5th to 11th October 2020 and received excellent grade.
- Completed 8 weeks online course with Certification in Information Security - 5 - Secure Systems Engineering from NPTEL during January to April 2020.
- Completed 12 weeks online course with Elite Certification in “Ethical Hacking” from NPTEL during July to October 2019.
- Completed 12 weeks online course with Certification in “Blockchain Architecture and Use cases” from July to October 2018 and “Modern Application Development” during July to September 2017
- Attended certified Train the Trainer program organized by IBM and received certification for IT Infrastructure Landscape, Cloud Computing Architecture, Cloud Deployment Model, Managing the Cloud, IT Systems Security and Physical Security and Information Security Intelligence and Compliance Analytics using Big Data.
- Dlink Certification on DCT-Switching in the year 2014.
- Coursera – 6, EDX – 2 and Robotic Process Automation – 6.

TRAVEL GRANT OBTAINED

- Fund obtained (1200 GBP) from World Technology Universities Network (WTUN), United Kingdom (UK) for Exchanges and Joint Research Meetings at University of Bradford, UK from 3rd to 8th April 2019.

AWARDS AND ACCOLADES

- Received Women Engineer Award from IET Professional Society in the year 2020.
- Received National Level “Best Faculty award of the year 2017” under the category Evangelizing and Contributing to spread knowledge, across several institutions for the contributions in academia from Computer Society of India (CSI), which is one of the leading professional body, recognizing the academicians under various categories.

- Received National Level "Best Cyber Security Education Institution Award of the year 2017" from the Data Security Council of India (DSCI). Data Security Council of India (DSCI) - NASSCOM Excellence Awards is the premier industry recognition in the security realm under various categories of cyber security. Hindustan Institute of Technology and Science has reaped for the contribution in offering the cyber security courses and creating the cyber security awareness in the society through various events and outreach activities.
- Received Encouragement Award from Hindustan Institute of Technology and Science in the year 2017.
- Received CLN Promotional Award from IET Professional Society in the year 2014.
- Reviewer of Advances in Science, Technology and Engineering Systems Journal, since August 2017.
- Attended the Workshop on Securing the Digital Space at Anna University on 6th January 2018 and gave an interview in WinTV about the workshop.
- Received Rs.50000 fund from DRDO for organizing a National Conference on Intelligent Information Systems during the year 2017.