Curriculum Vitae

Dr. Chandra Priya J. is an Assistant Professor at the National Institute of Technology, Tiruchirappalli, since December 8, 2025. She holds a Ph.D. from Anna University, Madras Institute of Technology, Chennai, with a dissertation on Modeling and Evaluation of Consortium-based Blockchain Consensus Protocols for IoT Data Security and Privacy. She earned her M.E. in Computer Science and Engineering from Anna University, Tiruchirappalli with a university rank.

Her research specialisations span blockchain technology, cryptography and network security, and IoT security, with a particular focus on consortium blockchain consensus protocol design, blockchain-IoT integration for smart city frameworks, ring signature-based authentication for the Internet of Medical Things, federated learning architectures in 6G IoT networks, and data provenance frameworks for industrial IoT. Her accolades include Indian National Science Academy (INSA) Research Fellowship at Indian Institute of Technology (IIT) Hyderabad (2025) and IEEE Ambassador (2021). She holds a Certified Blockchain Associate credential from Kerala Blockchain Academy, part of India's premier state-sponsored blockchain training ecosystem backed by the Hyperledger Foundation. She has authored over 45 peer-reviewed publications indexed in SCI and Scopus journals. She holds four Indian utility patents, one of which has been granted. She is a member of professional societies like ISTE (Life Member).

1. Name: Dr. Chandra Priya J
2. Designation: Assistant Professor
3. Office Address: Room No: 309, Second Floor, Dept. of CSE, NIT Tiruchirappalli
4. Telephone (Direct) (Optional):

   Telephone : Extn (Optional): 0431 250 3220

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5. Email (Primary): jchandrapriya@nitt.edu Email (Secondary): jchandrapriya@gmail.com
6. Field(s) of Specialization: Cryptography and Network Security, Distributed Systems Security, IoT Data Security and Privacy, Consensus Protocol Design

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor in Dept. of CSE	National Institute of Technology, Tiruchirappalli, Tamil Nadu	08-12-2025	Till date
Assistant Professor in Dept. of CSE	Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu	11-07-2022	30-04-2025
Assistant Professor in Dept. of CSE	Kings College of Engineering, Pudukkottai, Tamil Nadu	11-12-2020	30-12-2021
Teaching Fellow in Dept. of CT	Anna University, MIT Campus, Chennai, Tamil Nadu	19-09-2015	31-10-2020

8. Academic Qualifications:

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	Anna University, Chennai	2022	NA	Information and Communication Engineering
M.E (CSE)	Anna University, Chennai	2015	First Class with Distinction	Computer Science and Engineering
B.E (CSE)	Anna University, Chennai	2013	First Class with Distinction	Computer Science and Engineering
HSC	Tamil Nadu State Board	2009	First Class with Distinction	Maths, Physics, Chemistry, Computer Science
SSLC	Tamil Nadu State Board	2007	First Class with Distinction	Tamil, English, Maths, Science, Social

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Subject expert for syllabus setting (R2025)	Anna University, Chennai	AY2025-26	
Faculty Advisor, Google Developer Student Club	Mepco Schlenk Engineering College. Sivakasi.	2022	2025
Residential Counsellor (IV year Girls)	MIT Hostels, Anna University, MIT Campus, Chennai.	2016	2020

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2013	University Rank Holder - UG	Anna University, Chennai
2015	University Rank Holder - PG	Anna University, Chennai

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2025	Research Fellowship	Indian Academy of Science, IIT Hyderabad	May 2025	July 2025
2013	Teaching Assistantship under TEQIP-II	Anna University, Trichy (Sanctioned by NPIU, New Delhi)	October 2013	May 2015

13. Details of Academic Work

(i) Curriculum Development

Contributed to curriculum development for PG (R-2023) and UG (R-2023) programmes at Mepco Schlenk Engineering College with two course designs registered under the Copyright Office, Government of India:

i. Instructional Course Design on Information Storage and Retrieval — Reg. No. L-135591/2023 · 07 Nov. 2023
ii. Instructional Course Design on Blockchain Architectures — Reg. No. L-140563/2024 · 04 Jan. 2024

(ii) Courses taught at Postgraduate and Undergraduate levels

Programming in C, Problem solving using Python
Digital Principles and System Design, Design and Analysis of Algorithms
Object Oriented Analysis and Design
Blockchain Architectures, Information Retrieval Techniques

(iii) Projects guided at Postgraduate level

1. Cloud Based Optimization on Amazon Web Service with Blockchain — Seetha Lakshmi B (2016658008) · 2019
2. An Automated Learning Environment for Online Ride Sharing with P2P Blockchain Security — Gausalya M (2018614032) · 2020
3. Industrial IoT Data Sharing Technique with Blockchain Technology — Shibani Raju S (2018614044) · 2020
4. Digital Anthropometry for Health Screening from an Image using FETTLE App — Roselin Preethi (2017658004) · 2020

(iv) Other contribution(s)

Indian patents:

#	Number	Title	Date
1	202541018576	Access Controlled Consumer Data Aggregation and Traceability Framework for Resource Utilization Analysis	21 Mar 2025
2	202241057838	Blockchain Enabled Smart PUC System for Continuous Vehicle Emission Monitoring in India	15 Nov 2024
3	202241057838	FPGA based Image Encryption using Block Level and Bit Level Permutation for Access Control in Hospitals	14 Oct 2022

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event	Role	Event Organizer	Venue
16–21.12.2024	ATAL FDP on A Deep Dive into Artificial Intelligence and Machine Learning	National	Participant	SASTRA University	Thanjavur
27–31.07.2021	ATAL FDP on Lightweight Cryptography for IoT Security and Blockchain Technologies	National	Participant	University Institute of Technology, RGPV	Online
22–26.06.2020	ATAL FDP on Blockchain and its Applications	National	Participant	NIT Nagaland	Online
27–31.12.2019	National Workshop on Blockchain Application Development using Hyperledger and Ethereum	National	Participant	NIT Puducherry	Karaikal
16–20.09.2019	ISEA Workshop on Blockchain Technologies	National	Participant	Anna University (CEG)	Chennai
22–26.04.2019	ISTE FDP on Cloud Security and Blockchain Technology	National	Participant	Sri SaiRam Engineering College	Chennai
22–27.05.2018	FDTP on Cryptography and Network Security	National	Participant	Anna University (MIT Campus)	Chennai

19.11–01.12.2018	FDTP on Compiler Design	National	Participant	Anna University (MIT Campus)	Chennai
28.11–04.12.2016	FDTP on Mobile Computing	National	Participant	Anna University (MIT Campus)	Chennai
27.11–03.12.2017	FDTP on Operating Systems	National	Participant	Anna University (MIT Campus)	Chennai
16–17.12.2017	SSP on Introduction to Machine Learning	National	Participant	IIT Kharagpur	Online

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
AICTE ATAL FDP on "AI-Driven Blockchain Revolution: Unveiling Potential and Real-World Use Cases for Digital Transformation"	National	30.10.2023 – 04.11.2023	Co-Coordinator	Dept. of CSE, Mepco Schlenk Engineering College, Sivakasi

18. Invited Talks delivered

Topic	Date	Inviting Organization
Blockchain towards Autonomous vehicle security	06.02.2026	National Institute of Technology, Puducherry
Research Directions, Funding Opportunities, and Academia–Industry Collaboration	20.02.2026	R.M.K. College of Engineering and Technology, Chennai
The Future of Blockchain: Innovations & Business Potential	26.07.2025	Jansons Institute of Technology, Coimbatore
Building Trust in the Digital Age with Blockchain	15.05.2024	Anjalai Ammal Mahalingam Engineering College, Tiruvarur
Digital Transformation	05.12.2023	Birla Institute of Technology, Mesra, Ranchi
Blockchain — Trends and Applications	10.04.2023 and 11.04.2023	Vellore Institute of Technology, Vellore
Cyber Security and Blockchain: Awareness, Use Cases and Challenges	09.12.2021	College of Engineering, Pune
Applications of Blockchain Technology and AI in Services Sector	21.09.2021 and 22.09.2021	Acharya Bangalore Business School, Bengaluru
Perspectives of Blockchain Integrated with IoT: Challenges and Opportunities	09.07.2021	PSNA College of Engineering and Technology, Dindigul
Use Cases of Blockchain	17.04.2021	Research Circle (Webinar)

Blockchain Consensus Models	03.03.2021	Research Circle (Webinar)
Blockchain Technology	23.02.2020	IIT Madras Research Park, Chennai
Blockchain Technologies: Applications and Challenges	21.08.2019	Sree Vidyanikethan Engineering College, Tirupati
Blockchain Technology	20.11.2019	Sree Vidyanikethan Engineering College, Tirupati
Software Engineering	20.12.2019	Anna University, MIT Campus, Chennai

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	Indian Society for Technical Education	LM-136919

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals: (Selective)

Author(s)	Title of Paper	Journal	Vol. (No.)	Page nos.	Year
G Nanthakumar, J Chandra Priya, K Karthika, A Jyothi Babu	Efficient Analytics and Fuzzy Call Admission Control With Adaptive Scheduling for Enhanced Quality of Service in 6G IoT for Multimedia Streaming	International Journal of Communication Systems	39(4)	e70392	2026
J. Chandra Priya, S. Priyadharsini, Madhavan M., Nikil Sri Shen R.	WikiChain: An improved resilient, pseudo-transparent knowledge base	Peer-to-Peer Networking and Applications	18	36	2025
J. Chandra Priya, R. Praveen, K. Nivitha, T. Sudhakar	Improved blockchain-based user authentication protocol with ring signature for Internet of Medical Things	Peer-to-Peer Networking and Applications	17(3)	1–20	2024
J. Chandra Priya, G. Nanthakumar, Tanupriya Choudhury, K. Karthika	6G-DeFLI: Enhanced quality-of-services using distributed hash table and blockchain-enabled federated learning approach in 6G IoT networks	Wireless Networks	30(4)	1–15	2024
P. Pabitha, J. Chandra Priya, R. Praveen, S. Jagatheswari	ModChain: A hybridized secure and scaling blockchain framework for IoT environment	International Journal of Information Technology	15(3)	1741–1754	2023

J. Chandra Priya, Tanupriya Choudhury, Abhirup Khanna, Roselin Preethi	Blockchain-based transfer learning for health screening with digital anthropometry from body images	Network Modeling Analysis in Health Informatics and Bioinformatics	11	1–18	2022
Ponsy R K Sathia Bhama, J. Chandra Priya	MetaInfoChain: Bi-layered blockchain consensus for metadata aggregation in IoT and cloud environments	Transactions on Emerging Telecommunications Technologies	32(12)	e4362	2021
J. Chandra Priya, Ponsy R K Sathia Bhama	Performance analysis on Diversity Mining-based Proof of Work in bifolded consortium blockchain for Internet of Things consensus	Concurrency and Computation: Practice and Experience	33(16)	e6285	2021
Google Scholar Profile: https://tinyurl.com/mu5kudnf					

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Paper	Title of the Proceedings	Page nos.	Venue	Year
J. Chandra Priya, G. Nanthakumar	Permissioned Blockchain-Enabled Decentralized Streaming for Adaptive QoS in 6G Networks	International Conference on Computing, Communication, Control and Cyber-Physical Systems (IC5PS-2026)	1-6	NIT Puducherry	2026
J. Chandra Priya, R. N. Karthika, K. Suresh Kumar, P. Valarmathie	BlockSIoT: a Blockchain-Based Secure Data Sharing in SIoT	International Conference on Data Analytics and Management (ICDAM 2021)	687–700	Online	2021
Chandra Priya J, Ramanujan V, Rajeshwaran P, Ponsy R K Sathia Bhama	SG_BIoT: Integration of Blockchain in IoT Assisted Smart Grid for P2P Energy Trading	International Conference on Paradigms of Computing, Communication and Data Sciences (PCCDS 2020)	553–564	NIT Kurukshetra	2021
Roselin Preethi, Chandra Priya J	Digital Anthropometry for Health Screening from an Image Using FETTLE App	International Conference on Paradigms of Computing, Communication and Data Sciences (PCCDS 2020)	123–135	NIT Kurukshetra	2021
Chandra Priya J & Ponsy R K Sathia Bhama,	An Automated System for Espying Tax Elusion using Applied Behavior Analytics: Pertinent to India	International Conference on Advanced Computing (ICoAC 2019)	386–391	Anna University, Chennai	2019
Chandra Priya J, Ponsy R K Sathia Bhama, Swarnalaxmi S., Safa A.A., Elakkiya I.	Blockchain Centered Homomorphic Encryption: A Secure Solution for E-Balloting	International Conference on Computer Networks, Big Data and IoT (ICCBI 2018)	811–819	Springer, Cham	2018

Ponsy R K Sathia Bhama, Pavithra B., Chandra Priya J	Fault Tolerance Clustering of Scientific Workflow with Resource Provisioning in Cloud	International Conference on Computer Networks, Big Data and IoT (ICCBI 2018)	737–751	Springer, Cham	2018
Chandra Priya J & Ponsy R K Sathia Bhama,	Disseminated and Decentred Blockchain Secured Balloting: Apropos to India	International Conference on Advanced Computing (ICoAC 2018)	323–327	Anna University, Chennai	2018
Chandra Priya J & T. Perinba Jothi	Enhanced Holter Monitoring in Adaptive Environment with HIVEing	International Conference on Advanced Computing (ICoAC 2017)	275–280	Anna University, Chennai	2017
Chandra Priya J	QoS Facets of Cross Layer Asserted Wireless Frameworks: A Survey	International Conference on Advanced Computing (ICoAC 2016)	105–110	Anna University, Chennai	2017

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
J.Chandra Priya, Sujata Priyambada Dash	Blockchain-Based Digital Immune System for IoT Security with Adaptive Threat Detection and Automated Response	Wiley	2025	9781394383757
J.Chandra Priya, Ponsy RK Sathia Bhama	Resource Optimization of Cloud Services with Bi-layered Blockchain	Taylor & Franscis	2021	9781003121619