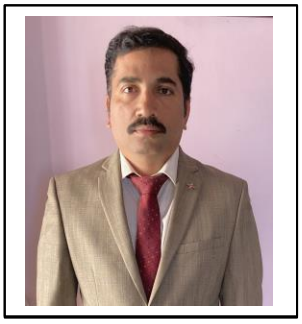
SRI SHRIDEVI CHARITABLE TRUST (R.)

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY



NAME: Prasanna kumar M
Designation: Assistant Professor
Department: Information Science and Engineering

Date of Joining	03/01/2025		
Professional Experience	Teaching	Industry	Research
	17	4	2

Contact Details

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ORCID	https://orcid.org/0009-0004-4758-5162
Vidwan -ID	**597371**

Academic Background

- **Pursuing PhD in Computer Science and Engineering**
- **M Tech in Computer Science and Engineering**
- **BE in Instrumentation and Electronics**

Areas of Interest

- Internet of Things
- Cyber Security
- Blockchain Technology
- Computer Networks

Significant Publications

- **No. of Papers Published in Journals (5)**
  - Kumar, M.P., Nalini, N. An efficient chaotic MHT-PUF-based IoT device authentication with QPBFT for smart grid infrastructure. Electr Eng 107, 1281–1297 (2025). https://doi.org/10.1007/s00202-024-02563-w
  - Prasanna Kumar M, et al. (2023). A Lightweight Security Model using Delta Probabilistic Hashing Technique for Secured Data Transmission in IoT Systems. International Journal on Recent and

Innovation Trends in Computing and Communication, 11(10), 2097–2107. https://doi.org/10.17762/ijritcc.v11i10.8895.

- Priyanka H.V , Prasanna kumar M, Abhinav N. D, "A survey on File hierarchy-based encryption and geo encryption scheme for efficient data sharing in cloud" in IJIRCCE(2017).
- Abhinandan K, Prasanna Kumar M. "A Hybrid Cloud Approach For Secure Approved Deduplication" in GJESRM (2016).
- Praveen Kumar P S, Prasanna Kumar M. "An Attestation of Service Integrity for SaaS Clouds using IntTest method" in IJETST (2015).

- **No. of Papers Presented in Conferences (4)**
  - Prasanna Kumar, M., Nalini, N. (2023). An Efficient Blockchain-Based Security Framework for PUF-Enabled IoT Devices in Smart Grid Infrastructure. In: Shetty, N.R., Patnaik, L.M., Prasad, N.H. (eds) Emerging Research in Computing, Information, Communication and Applications. Lecture Notes in Electrical Engineering, vol 928. Springer, Singapore. https://doi.org/10.1007/978-981-19-5482-5_73
  - Prasanna Kumar M, Dr. Nalini N, Dr. Prasad Naik Hamsavath, "An Effective PUF based Lightweight authentication and key sharing scheme for IoT Devices", Proceedings of ERCICA 2021, International Conference on Emerging Research in Computing, Information, Communication and Applications, September 2020, Scopus, Springer. https://doi.org/10.1007/978-981-16-1338-8_22
  - Prasanna Kumar M, Nalini N. "Aggregate key for effective device access control in Internet of Things" in international conference of software engineering, CONSEG -18.
  - Prasanna Kumar M, Nalini N. "A decentralised lightweight security and privacy preservation model for RFID based IOT system" in NCESM-2016.
- **List of FDP's/Workshops (22)**
  - **NPTEL** course on **"Ethical Hacking"**
  - **NPTEL** course on **"Blockchain and its Applications"**
  - "Cyber Security" organized by K Tech Centre of Excellence in Cyber Security (CySecK) at IISc Challekere.
  - "Blockchain: A Disruptive Technology" organized by AICTE Training And Learning (ATAL) Academy Online.
  - "IoT & Cyber Security" organized by AICTE Training And Learning (ATAL) Academy Online.
  - "Data Analytics, Next Generation Programming Languages and Simulations" from organized by Saptagiri College of Engineering, Bengaluru.
  - "SciLab: An Effective Open Source Tool for Computer Vision and Machine Learning" organized by Vidya Jyothi Institute of Technology, Hyderabad.
  - **"Python Programming through INFYTQ Platform"** conducted by Infosys Limited.
  - **"Sprucing Up Mobile Application using Android"** conducted by **Infosys** at SIT Tumakuru.
  - **"Web Application Development using J2EE Framework"** conducted by **Infosys** at ESEC Erode.
  - **"Foundation Program 4.0"** conducted by **Infosys** at **Infosys** Limited, Bangalore.
  - **" Big Data Analytics"** organized by Computer Society of India, Bengaluru Chapter.
  - "**IOT, Deep Learning & Cloud computing**" held at SSIT, Tumakuru.
  - "**Data Analytics, Next Generation Programming Languages and Simulations**" from organized by Saptagiri College of Engineering, Bengaluru.
  - "**Blockchain: A Disruptive Technology**" organized by AICTE Training And Learning (ATAL) Academy Online.
  - "**IoT & Cyber Security**" organized by AICTE Training And Learning (ATAL) Academy Online.
  - "**SciLab: An Effective Open Source Tool for Computer Vision and Machine Learning**" organized by Vidya Jyothi Institute of Technology, Hyderabad.

- **"Wireless Mesh Networks: Challenges and Research Directions"** at Govt SKSJTI Bangalore.
- **"Mobile Communications, Wireless LAN and Security" a**t RNSIT Bangalore.
- **"ASP.NET with AJAX"** at SIET Tumakuru.
- **"High Impact Teaching Skills" Attested by Dale Carnegie & Associates, Inc. Trainer and Wipro** at SIT Tumakuru.
- **"Mission 10x High Important Teaching skills",** at SIT Bangalore.
- **Awards/Recognition**
  ISAC certified Cyber Crime Intervention Officer.
  Recognized twice as SILVER partner faculty under Infosys Inspire-The Campus Connect Faculty Partnership Model in 2014 and 2015.

- **Project Guided details**
  UG-32
  PG-10

Achievements

- Awarded a research grant of ₹20 lakhs by the Vision Group on Science and Technology (VGST) for the project titled "Establishment of Ethical Hacking - Centre of Excellence" in the academic year 2022–23. Served as the Co-Principal Investigator for the project.
- **Invited Speaker for**
  "Cyber Security, WiFi and Internet Usage Policy, HIMS" at Ashwini Ayurvedic Medical College and Research Centre, Tumakuru.

  "Industrial Internet of Things" at Govt.Polytchnic, Tumakuru.

  "Trends and Opportunities in IoT" at Channabasaveshwara Institute of Technology, Gubbi.

  "Artificial Intelligence" at Acharya Polytechnic, Tumakuru.
- Recognized as Silver Partner Faculty under Infosys Inspire-The Campus Connect Faculty Partnership Model in 2014 and 2015**.**
- **In-house resource person for**
  Value Added Course on "Salesforce"
- **Professional Membership**
  MISTE
  IEEE Professional Membership