



**Mr. Sanoj R**

Assistant Professor  
Department of CSE/Information Technology  
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**Qualifications:**

- B.Tech in Information Technology
- M.Tech in Software Engineering

**Experience:**

- Working as Assistant Professor in CAPE since 21/08/2006.
- Total service: 15+ years

**Areas of Interest:**

- Machine Learning/Deep Learning
- Image Processing
- Internet of Things
- Cryptography

**Positions held:**

- Member, Board of Studies, Information Science, APJAKTU (KTU )
- Member, APJAKTU(KTU) - District-wise Examination Squads (Wayanad)
- Convenor, Maintenance Committee, TEQIP – II
- Coordinator, ISO
- Member, Board of Governors, TEQIP-II, CE Perumon (2017-20)
- Assistant Camp Officer, CV Camp (C74), CE Perumon (2019-20)
- Secretary, PTA (2018-20)
- Co-ordinator, Academic software (2017-20)
- Member, College Development Council (2018-20)
- Co-coordinator, Accreditation committee (2018-20)
- Member, Canteen committee (2018-20)
- Member, AICTE committee (2017-20)
- Member, Disciplinary action committee (2019-20)
- Co-ordinator, Admission committee (2019-20)

- Member, Academic monitoring committee(2017-19)
- Convener, CAPE Merit day (2017-18)
- Co-ordinator, Detailed Project Report for KIIFB Assistance (2017-18)
- Co-ordinator, Network Administrator & Website updation committee (2016-18)
- Co-ordinator, Canteen committee (2017-18)
- Member, Counselling committee (2017-18)
- Member, University Examination committee (2017-18)
- Member, Organizing committee, National Conference On Advances in Informatics and Computing Technologies (AICT'18)
- HoD, Department of Information Technology (2015-16)
- Nodal Officer IIC, TEQIP-II (2015-16)
- Coordinator, Admission Committee (2015-16)
- Member, Project Committee (2012-13)
- Member, Website updation & Software development team (2012-13)
- Staff in charge, Sports (2010-2012)
- HoD, Department of Information Technology (2006-10)
- Secretary, Co-Operative Store, CE Trikaripur (2009-10)
- Hostel(SC/ST) warden (2008-10)

### **Subjects Taught:**

- IT409 Web Application Development
- CS407 Distributed Computing
- IT462 Internet of Things
- CS308 Software Engineering and Project Management
- IT403 Mobile Computing
- IT401 Embedded Systems
- BE103 Introduction to Sustainable Engineering
- CS1701 Industrial Organization and Management
- CS368 Web Technologies
- IT1802 Real Time Systems
- 04 CS 7213.4 Ad-Hoc and Sensor Networks (PG)
- CS1604 Computer Networks
- IT1506 Internet Programming
- IT 1801 Electronic Business and Services
- 04 CS 6222 Distributed Operating System (PG)
- CS503 Software Engineering
- IT 702 Multimedia Computing
- EC 108 Computer Programming
- IT 804 A Software Testing Methods & Tools

### **Labs**

- IT431 Web Application Development Lab
- IT492 Project
- IT332 Internet Technology Lab
- IT17L2 Mini Project –Multimedia Based
- IT 708 Seminar
- IT16L2 Mini Project –Internet based
- IT 17 L3 Project Design
- IT706 Computer Network Lab
- EC 110 Computer Programming Laboratory

## Projects Guided:

### PG

- Embedding Secret Data In Encrypted Image (M.Tech, 2015-16)
- Enhancing The Capacity Of Steganography Using Reversible Texture Synthesis (M.Tech, 2015-16)
- A Deep Learning Approach for the detection and classification of Interstitial lung Diseases using Convolutional Neural Network (M.Tech, 2016-17)
- Social Media Data Analysis For Modeling Urban Behavior (M.Tech, 2017-18)
- Attain Efficient Reliable Dynamic Searchable Symmetric Encryption Using Secure KNN Scheme (M.Tech, 2018-19)

### UG

- Android Based Hand Gesture Recognition System For Dumb People (2020-21)
- Leukemia Detection Using Image Analytics (2020-21)
- Online Electronic Voting System Using Blockchain (2019-20)
- IoT Based Dam Water Monitoring And Flood Alert System For Kerala (2019-20)
- Dynamic ID based Anonymous Authenticated Key Exchange Protocol with Extended Security Model (2017-18)
- Fast Feature Pyramid For Object Detection (2017-18)
- Device Finger Printing In Gateway Security (2017-18)
- Hand Gesture Recognition (2017-18)
- Baby Health Monitoring App (2016-17)
- Facial Expression Recognition (2016-17)

## Publications:

- E-Voting System Using Blockchain, Sambodhi (UGC Care Journal) ISSN: 2249-6661 Vol-43, No.-03 (III) November-December (2020)
- Efficient Secure Dynamic Searchable Symmetric Encryption Using Secure KNN Scheme, International Conference on Emerging Trends in Engineering and Technology (ICETET - 2019), 29-30 May 2019, American International Journal of Research in Science, Technology, Engineering & Mathematics, ISSN (Print): 2328-3491, ISSN (Online): 2328-3580, ISSN (CD-ROM): 2328-3629.
- Social Media Data Analysis for Modeling Urban Behavior, National Conference on Advances in Informatics and Computing Technologies (AICT'18), 20-21 March 2018.
- Enhancing the Capacity of Steganography Using Reversible Texture Synthesis with Edge Adaptive and Tree-Based Parity Check (TBPC) Methods -A Detailed Survey, (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 6 (5) , 2015, 4745-4747, ISSN:0975-9646.
- "JPEG-A Compression Tool" Implemented In MATLAB, International Journal of Digital Application & Contemporary Research Volume 4, Issue 3, October2015, IJDACR, ISSN: 2319-4863.
- Efficient Secure Dynamic Searchable Symmetric Encryption Using Secure KNN Scheme, International Conference on Emerging Trends in Engineering and Technology (ICETET - 2019), 29-30 May 2019, American International Journal of Research in Science, Technology, Engineering & Mathematics, ISSN (Print): 2328-3491, ISSN (Online): 2328-3580, ISSN (CD-ROM): 2328-3629

### **Training Programmes Organised:**

- Nil

### **Training Programmes Attended:**

- Faculty Development Programme on "Emerging Trends and Developments in Biomedical Engineering" 09/08/2021 to 14/08/2021(6 Days)Department of CSE, CE Perumon
- Faculty Development Programme on "Data Science using Python" 28/01/2021 to 30/01/2021(3 Days)Department of IT, CE Vadakara
- Faculty Development Programme on "Soft Computing Tchniques" 8/02/2021 to 13/02/2021 (6 Days) Department of ME, CE Perumon
- Faculty Development Programme on "Outcome based Education for NBA Accreditation" 10/10/2019 to 12/10/2019 (3 Days) College of Engineering Perumon
- Two Week online certification course on "Digital Transformation In Teaching Learning" Process 16/03/2020 to 30/03/2020 (15 Days) IIT Bombay
- AICTE-ISTE sponsored refresher programme on "Deep Learning" 10/12/2018 to 15/12/2018 (6 Days) Department of Computer Science and Engineering, College of Engineering Muttathara
- Faculty Development Programme on "IoT and its Applications" 21/02/2019 to 23/02/2019 (3 Days) Department of Electronics and Communication Engineering, College of Engineering Perumon
- Faculty Development Programme on "Computer Vision and its Applications" 10/04/2019 to 12/04/2019 (3 Days) Department of Computer Science and Information Tecnology, College of Engineering Perumon
- Workshop on "Outcome based NBA Accreditation with Emphasis on How to prepare SAR" 11/01/2018 to 13/01/2018( 3 Days)"Department of Mechanical Engineering, College of Engineering Perumon"
- Faculty Development Programme on "Advanced Communication Technologies & Signal Processing" 19/04/2018 to 23/04/2018 ( 5 Days) Department of Electronics and Communication Engineering, College of Engineering Perumon"
- Faculty Development Programme on "Natural Language Processing & Machine Learning" 18/04/2016 to 22/04/2016 (5 Days) ( Forwarded from 2015-16) Department of CSE, CE Kidangoor
- Faculty Development Programme ( Pedagogy) 09/03/2017 to 11/03/2017 (3 Days) Teaching Learning Centre, IIT Madras
- Faculty Development Programme on "LAMP ( Linux, Apache, MySQL) " 13/12/2016 to 15/12/2016 (3 Days) Department of CSE, CE Adoor
- Faculty Development Programme on "Advanced Phython Programming for Networking" 27/07/2015 & 28/07/2015 (2 Days) Department of IT, CE Kidangoor
- Faculty Development Programme on " Network Simulator" 17/09/2015 & 18/09/2015 (2 Days) Department of CSE, CE Kidangoor
- Short Term Training programme on " Recent Trends in Cryptography" 11/11/2015 to 14/11/2015 (4 Days) Govt. Engineering College Idukki
- Five day Short Term Training programme on " Web Management using .NET & Java Technologies" 30/11/2015 to 04/11/2015 (5 Days) Department of IT, CE Kidangoor

- Short Term Training programme on " Internet of Things" 04/04/2016 to 08/04/2016 (5 Days) Department of IT, Govt. Engineering College Idukki
- Faculty Development Programme on "Router Configuration" 01/11/2012 to 06/11/2012 (4 Days) Department of CSE/IT
- Faculty Development Programme on "Cloud Computing" 19/08/2012 (1 Day) Department of CSE/IT
- AICTE sponsored Staff Development programme on "Software Testing & Software Quality Management Techniques" 03/11/2009 to 16/11/2009 (14 Days) CE Perumon

**Professional Body Memberships:**

- Nil