Present
'Sivam',Devi Nagar
Arpookara East P.O.
Kottayam District
Kerala, INDIA – 686 008.
Ph: 0481 2598101

Official
Associate Professor
Electronics & Communication
Cochin University College of Engg.
CUSAT Campus, Kuttanad
Pulincunnu P.O., Alappuzha Dist.
Kerala, INDIA – 688504
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Objective
An attractive and challenging position in Teaching /Research/Administration/Training

Education
- **Ph.D.** (Faculty of Engineering), Cochin University of Science & Technology (CUSAT), (2014 – 2022)
- **M. Tech** in Electronics with specialisation in Microwave and Radar Electronics (2008 –2010, First Class with Distinction), CUSAT
- **MBA** with specialisation in HRM, Indira Gandhi National Open University (IGNOU), (1997-2000), 'B' Grade.
- **BE** in Electronics & communication, Mangalore University, (1988-1992), First class.

Research Area

- Computer Aided Diagnosis (Leukemia)
- Image Processing
- Medical Image Processing & Analysis
- Machine Learning
- Deep Learning

Educational Skills
- Excellent presentation skills
- Good handwriting
- Conducted mock interviews for the outgoing students.
- Wrote CVs for outgoing students.
- Coordinated Seminars and Training programs.
- Assisted placement cell activities.
- Chief Superintendent of University Examinations
- Conducted SWOT analysis for the students.
- Evaluated the satisfaction level of students.
- Advised the students in personal and academic matters as a class tutor for 60 students.

Experience: 27 years of Teaching/Administrative Experience in various institutions:

Cochin University of Science & Technology: Working as Associate Professor, Electronics& Communication Engineering at Cochin University College of Engineering, CUSAT Campus Kuttanad, Pulincunnu, Alappuzha, Kerala.

- Have 4 years of experience as Head, Electronics & Communication Engineering.
- Handled the Charge of Principal in his absence.
- Faculty coordinator –Arts & Sports

- ➢ Handles AICTE approval and related matters.
- ➢ Faculty-in-charge Networking/Internet
- ➢ Officiated as Chief superintendent of Examinations.
- ➢ Officiated as Observer for the conduct of CAT examination.
- ➢ Officiated as Member, valuation committee for CAT examination.
- ➢ Coordinated 'SATTVA'- Annual Arts and sports fest.

- ❑ **Associate Professor in ECE** (September 2011 – Present)
  Cochin University College of Engineering, CUSAT Campus, Kuttanad, Pulincunnu.

- ❑ **Lecturer in ECE (Sel. Grade)** (September 2008 – September 2011)
  Cochin University College of Engineering, CUSAT Campus, Kuttanad, Pulincunnu.

- ❑ **Lecturer in ECE (Sr. Scale)** (October 2003 – September 2008)
  Cochin University College of Engineering, CUSAT Campus, Kuttanad, Pulincunnu.

- ❑ **Lecturer in ECE** (February 2003 – September 2003)
  Cochin University College of Engineering, CUSAT Campus, Kuttanad, Pulincunnu.

Mahatma Gandhi University, Kottayam

- ❑ **Lecturer in Electronics (December 1998 – January 2003)**
  School of Technology & Applied Sciences, Mahatma Gandhi University, Kottayam, Kerala.

  - ➢ Handled classes effectively for MCA, MSc Applied electronics and BSc computer science in various subjects of electronics & allied area.
  - ➢ Coordinated the visit of AICTE delegates.
  - ➢ Introduced a method to evaluate the satisfaction level of students.
  - ➢ Organised seminars in various areas to inform the students about recent developments.
  - ➢ Officiated as Chief examiner for various subjects.
  - ➢ Accompanied and guided the students in study tour.

- ❑ **Lecturer in Govt. Polytechnics and Govt. VHSS (Around Three and a half years)**

  Worked in four Govt. Polytechnics on provisional basis and handled classes and allied duties of lecturer. Handled practical sessions at the diploma level and coordinated seminars and project works. Worked in a Vocational Higher Secondary School as lecturer and officiated as academic head.

Publications (First Author)

Journals:
- ▪ "Automated detection of leukemia by pretrained deep neural networks and transfer learning: A comparison", *Medical Engineering & Physics*, Elsevier Vol. 98, 2021

- ▪ "EFFICACY OF CIELAB AND CMYK COLOR SPACES IN LEUKEMIA IMAGE ANALYSIS: A COMPARISON BY STATISTICAL TECHNIQUES", *Biomedical Engineering: Applications, Basis and Communications*, World Scientific 2021

- "A survey on image segmentation of blood and bone marrow smear images with emphasis to automated detection of Leukemia" *Biocybernetics and Biomedical Engineering (Elsevier),* Volume 40, Issue 4, October–December 2020, Pages 1406-1420.
- "Automated Detection of B Cell and T Cell Acute Lymphoblastic Leukaemia Using Deep Learning" *IRBM (Elsevier)*, Available online 19 May 2021.

- "A Review on Computer Aided Detection and Classification of Leukemia" *Multimedia Tools and Applications (Springer)*- Under Review.

Conferences:

- "Classification of B-Lymphoblasts against Normal Lymphocytes by Deep Convolutional Neural Network", Artificial Intelligence and Communication Technologies, SCRS, India, 2022.
- "Automated Segregation of Lymphoid and Myeloid Blasts in Acute Leukemia Cases Using Deep Convolutional Neural Network" *4th International Conference on Communication and Computational Technologies (ICCCT)*, February, 2022.
- "Colour based Image Segmentation for Automated Detection of Leukaemia: A comparison between CIELAB and CMYK colour spaces" *IEEE International Conference on Circuits and Systems in Digital Enterprise Technology (ICCSDET)*, 2018, Saintgits College of Engineering, Kerala, INDIA. (December 2018)
- "Assessment of Overall Satisfaction Level of Students in a Technical Institution" *IEEE International Conference on Engineering Education*, Amaljyothi College of Engineering, Kerala, INDIA. (July 2012)
- "Automated Network Analyzer Measurements for Cavity Perturbation Method" in an *International conference on System Dynamics and Control*, Manipal Institute of Technology, Manipal, Karnataka. (March 2010)
- "Permittivity Calculator using Cavity Perturbation Method" in a *National Conference on Emerging Trends in RF and Signal processing,* Federal Institute of Science And Technology, Angamaly, Kerala. (August 2010)

Expert Lectures/Conferences

- ***Session Chair - Robotics, Internet of Things (IoT) and Control System*** for IEEE World Conference on Applied Intelligence and Computing (AIC 2022), in the year 2022
- ***Session Chair - Intelligent Data Analytics and Computing*** for 4th International Conference on Communication and Intelligent Systems (ICCIS 2022), NIT Delhi, in the year 2022
- **Program Committee Member & Reviewer** for 4th International Conference on Communication and Intelligent Systems (ICCIS-2022), NIT Delhi, December 19-20, 2022.
- **Program Committee Member & Reviewer** for 3rd International Conference on Computational Intelligence (ICCI-2022), IIIT Pune, December 29-30, 2022.
- **Program Committee Member & Reviewer** for 5th Communication and Computational Technologies (ICCCT 2023), January 28-29, India.
- **Program Committee Member & Reviewer** for 3rd International Conference on Computer Vision and Robotics (CVR 2023), February 24-25, India.
- Handled Career Guidance and Counselling session for VHSE students at St. John's Vocational Higher Secondary School, Kottarakkara.
- Handled expert session for Faculty Development Programme at College of Engineering, Perumon, Kollam, Kerala.
- Handled expert session for Faculty Development Programme at College of Engineering, Kuttnad, Alappuzha, Kerala
- Attended and actively participated in the International Congress on Kerala studies (**Kerala Padana Congress**) organised by CPIM in January, 2016.

Reviewer Experience

Reviewed many articles for the following International Journals:

- Biocybernetics and Biomedical Engineering (Elsevier)
- Biomedical Signal Processing and Control (Elsevier)
- Journal of Mechanics in Medicine and Biology (World Scientific)
- Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization (T & F Ltd.)
- IET Computer Vision (Wiley)
- Biomedical Engineering – Applications, Basis and Communications (World Scientific)
- Cogent Engineering (T & F)
- Cybernetics and Systems (T & F)
- Oncologie (Tech Science Press)

Language & Computer Skills

- Language proficiency in English, Malayalam and Hindi.
- Proficient in MATLAB.
- Proficient in Machine Learning/Deep Learning
- Proficient in Microsoft Office.
- Interested in computer assembling and troubleshooting.

Extracurricular Activities

- Officiated as Presiding Officer for general Elections Kerala, for eight times.
- Associated with Bharat Scouts & Guides – Winner of Adventure Award certificate.
- Participated and won many prizes in sports & games at school/college level.
- Associated with Science club, Forestry club, National Service Scheme etc.
- Officiated as Secretary of 'Phoenix' Arts & Sports club in my hometown.
- Executive committee member of resident association

Personal Details

Age: 51 Years
Date of birth: 30-05-1971.
Nationality: Indian.
Marital Status: Married
Community: Hindu- Ezhava

References

Dr. P.S. Sreejith   Dr. G. Madhu
Professor & Dean (Rtd.),   Professor
Faculty of Engineering   School of Engineering
CUSAT   CUSAT
Kochi - 682022   Kochi - 682022