

RESEARCH ACTIVITIES

Dr. K . Gopakumar (Approved research guide of Kerala University)

- Chaotic behaviour of Electronic Circuits and its Applications

- Research Scholars

1. Prof. Jisu Elsa Jacob - .EMI Failure Analysis Techniques and Mitigation Methods with Noise Prediction in Medical Instrumentation Circuits.
2. Prof. Suni S.S. - A Multimodal Sensor based Gesture Recognition System.
3. Prof. Devi V.R. - Studies on Different Methods of Induction and Suppression of Chaos in Nonlinear Dynamic Systems
4. Prof. Soumya Babu H. - Studies on Stability Analysis and Circuit Realizations of Various Iterated Maps.
5. Prof. Farsana F. J. - Study of Speech Cryptosystem based on Chaotic Principle.
6. Prof. - Development of a Face Hallucination Method to Address Alignment and Blurring Problem.

Dr. Unni C. (Approved research guide of Kerala University)

- Synthesis and Characterization of CdS and ZnS Quantum Dots

- Research Scholars

1. Prof. Lija Arun - Synthesis and characterization of certain semiconductor nano materials.
2. Prof Preethi Elizabeth Iype - Thermal Modeling of Semiconductor Devices and Validation.
3. Prof. Anju S.- Modeling and Optimization of non planar, non silicon FET Devices for High Frequency Applications.
4. Prof. Sajitha Rani G L - Visible Light Communication using white LEDs
5. Prof. Jayaranjini N - Design of Ultra Wideband Antenna.

Dr. Sheeba O (Approved research guide of Kerala University)

- Retinal Image Analysis and Development of Neural Model for the Diagnosis of eye Disease.

- Research Scholars

1. Prof. Nissa Surling S N - Analysis of Epileptic Seizures Using EEG Signals.
2. Prof. Soumya V.S. - Depth Map Extraction using Monocular and Binocular Images
3. Prof. Bino N - Retinal Image Processing for Quantification and Diagnosis of Macular Diseases.
4. Prof. Vishnu D - Design and Performance Analysis of Compound Reconfigurable Antenna using Metasurface
5. Prof. Sajeena A - Segmentation with feature point matching for Indian Sign Language
6. Mr. Biju P- Investigations on Stroke and Cardiovascular Risk pre-detection System using High Dynamic Range Fundus Image

Dr. T.A.Shahul Hameed (Approved research guide of Kerala University)

- Characterization and Effects of Ambience on Polymer Light Emitting Diodes.

• Research Scholars

1. Prof. Ayoob Khan T.E. - Modeling and Simulation of Non- Planar MOSFETs in Submicron Regime.
2. Prof. Anu Assis - Organic Field Effect Transistors Based on Synthetic Elastomers.
3. Prof. George M. Joseph. - Design and Analysis of High Performance Data Converters.
4. Prof. Sajin C S.- Design and Simulation of CMOS Amplifiers for High Frequency Applications.
5. Prof. Ushakumari K.L - Effect of Transport Layers on the Performance of Organo-Pervoskite Solar Cell.
6. Prof. Kala L.-Technology Adoption of M-Learning Over Wireless Communication Networks Using Mobile Handheld Devices.

Dr. Nissan Kunju

- Biomedical Devices and Technology.
- Functional electrical simulation

Prof. Heera Karunakaran (Pursuing Ph D)

- Image Analysis Techniques for Diagnosis of Ocular Diseases.

Prof. Abid Hussain M (Pursuing Ph D)

- Soft Computing Applications in Medical Diagnosis

Prof. Sajeena A. (Pursuing Ph D)

- Segmentation with Feature Point Matching for Regional Sign Language System

Prof. Dhoulath Beegum J (Pursuing Ph D)

- Algorithm for Audio Signal Separation

Prof. Reshna S (Pursuing Ph D)

- Segmentation and Classification Issues for Indian Sign Language Recognition System

Prof. Anu Assis (Pursuing Ph D)

- Organic Field Effect Transistors Based on Synthetic Elastomers.

Prof. Preetha Basu (Pursuing Ph D)

- Transform based Signal Analysis

Prof. Nishanth N (Pursuing Ph D)

- Security for Wireless Networks
- Mobile Adhoc networks - MANET
- Wireless Sensor Networks (WSN)
- Cryptography

