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| Dr.JOBYMOL JACOB | | |
| PROFILE | <p>Professor, Dept. of Electronics Engg.</p> <p>Model Engineering College, Thrikkakara, Kochi - 682021</p> <p>Email : joby@mec.ac.in</p> |  |
| EXPERIENCE | 24 YEARS IN TEACHING | |
| EDUCATION | | |
| Ph.D in the area of Semiconductor Device Modeling | IIT Madras | |
| M.Tech –Embedded Systems | Cochin University of Science and Technology, India, | |
| B Tech – Applied Electronics & Instrumentation | College of Engineering Trivandrum | |
| RESEARCH INTERESTS | | |
| Mathematical Modeling of Semiconductor Devices – Heterojunction devices, Solar Cell Structures | | |
| RESEARCH EXPERIENCE | | |
| <p>As a research scholar in Microelectronics and MEMS laboratory, Electrical Engineering Dept. of IIT Madras from July 2006 to April 2010 for pursuing Ph. D. Program.</p> <p>As a research guide at Model Engineering College, Thrikkakara under APJ Abdul Kalam Technological University from July 2016 onwards guiding two full time and two part time Ph. D. Scholar</p> | | |

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| MEMBERSHIP IN PROFESSIONAL BODIES | |
| Life Member ISTE (Indian Society for Technical Education) | |
| SCHOLASTIC ACHIEVEMENTS | |
| <ul style="list-style-type: none"> All India Rank 454 in GATE 2001 HTRA Scholarship (MHRD, Govt. of India) IIT Madras, for pursuing Doctoral program. | |
| INTERNATIONAL JOURNALS PUBLICATION | |
| 1. Jobymol Jacob, Amitava DasGupta, Michael Schroter, Anjan Chakravorty " Modeling Non-quasi Static Effects in SiGe HBTs ", IEEE Transactions on Electron Devices, vol. 57, pp. 1559-1566, July 2010. | |
| INTERNATIONAL CONFERENCES | |
| 1. Jobymol Jacob, Amitava DasGupta, Anjan Chakravorty "Physics based modeling of non-quasi-static effects in SiGe-HBTs", Electron Devices and Semiconductor Technology, 2009. IEDST '09. | |
| 2. Jobymol Jacob, Amitava DasGupta, Anjan Chakravorty, "Analysis of LCR Network for Modeling Non-quasi-static Effects in SiGe HBTs", XV International Workshop on Physics of Semiconductor Devices, 2009 | |
| 3. Jobymol Jacob, Amitava DasGupta, Anjan Chakravorty "Transient charge-based model for SiGe HBTs", IEEE International Conference in Emerging Trends in Electronic and Photonic Devices & Systems, 2009. ELECTRO '09. | |
| 4. Kiran Susan Pavu, Jobymol Jacob "Analysis of Discrete Conduction Spectrum of Quantum Dots in Single Electron Transistors", IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT), 2015 | |
| 5. Gayathri N, Haresh Kumar Singh, Jobymol Jacob " Design and Implementation of Sinc Filter for Signal Processing Applications " ICICICT-2017 | |
| 6. Vidheesha P. K., Jerin K. Antony, Jobymol Jacob, "Deep Learning based Edge Defect Detection," International Conference on Emerging Trends and Innovations in | |

Engineering and Technological Research, ToCH Institute of Science & Technology, July 2018.

7. Arun A.V., Ria Mariam Eldho, Jobymol Jacob, “ Gate Tunable Thermionic Tunnel FET with n+ pocket” INDICON 2018, at Amrutha Vishwa Vidyapeetham, Coimbatore, Dec. 15-18, 2018

COURSES HANDLED

| Sl.No | Course Name | UG/PG |
|-------|---------------------------------------|------------------------------|
| 1 | Analog Integrated Circuits Design -I | PG (VLSI & Embedded Systems) |
| 2 | Analog Integrated Circuits Design -II | PG (VLSI & Embedded Systems) |
| 3 | Artificial Neural Networks | PG (Signal Processing) |
| 4 | Electronic Circuits | UG |
| 5 | Analog Integrated Circuits | UG |
| 6 | VLSI Design | UG |
| 7 | Solid State Devices | UG |
| 8 | Digital Electronics | UG |
| 9 | Network Theory | UG |
| 10 | Microprocessors | UG |
| 11 | Electronic Instrumentation | UG |
| 12 | Control System Theory | UG |

OTHER DUTIES/RESPONSIBILITIES

External Academic Auditor of KTU.

Cluster Coordinator of M. Tech VLSI & Embedded Systems, Ernakulam Cluster-1 under KTU.

Research Coordinator, Model Engineering College, Thrikkakara.

PG Coordinator, Model Engineering College, Thrikkakara.

Coordinator of M. Tech -VLSI & Embedded Systems, Model Engineering College, Thrikkakara.

Coordinator DST-FIST Project , Model Engineering College, Thrikkakara (September 2015-September 2018)

Faculty Advisor of Mixed Signals (Electronics Students Association) of Model Engineering College, Thrikkakara

Faculty Advisor of ASIC (Association of M. Tech VLSI & ES Students) of Model Engineering College, Thrikkakara

Chair Person of Anti Sexual Harassment Committee of Model engineering College, Thrikkakara