

Dr. MERIL CYRIAC

Assistant Professor



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Qualifications:

- B. E – Electronics and Communication Engg. (Kannur University, Kerala)
- M. Tech – VLSI and Embedded System (MG University)
- Ph.D- Electronics and Communication Engg. (APJ Abdul Kalam Technological University)

Professional Experience:

- Assistant Professor, LBSITW, Trivandrum (2009-Till date)
- Assistant Professor, LBSCE, Kasaragod (2008-2009)
- Lecturer, SAINTGITS (2006-2008)
- Lecturer, Jyothi, Thrissur (2006-2006)
- Guest Lecturer, Kasaragod (2005-2006)

Recently Taught Courses:

- Control System
- VLSI Circuit Design
- Project
- Seminar
- Scientific Computing Lab

Other Responsibilities:

- Admission Committee Coordinator (Jun 2020-Till date)
- ECE/AE Association in Charge (2013-2016 & 2019-Till Date)
- Staff Advisor (2006-2010 ECE)
- Staff Advisor (2012-2016 ECE)

- Staff Advisor (2019-2023 ECE)
- Member of Question Paper Setting and Scrutiny committee of B.Tech courses of the University of Kerala and APJ Abdul Kalam Technological university
- Time Table Committee Co-ordinator (2014-2016)

Important Publications:

- Meril Cyriac, M. K. Sheeja, "A hybrid encryption scheme based on optical scanning cryptography and Fibonacci–Lucas transformation", AIP Advances, January 2021 (SCI), DOI: 10.1063/5.0030619.
- Meril Cyriac, M. K. Sheeja, "Design of an Optical Transfer Function Classifier based on Machine Learning and Deep Learning for Optical Scanning Holography", Photonics North, Canada, May 2021 (Scopus), DOI: 10.1109/PN52152.2021.9598000.
- G. Kanjana, Meril Cyriac, L. Anusree, Leena Thomas, Roshan Varghese, M. K. Sheeja, "Iterative Fourier Transform Optimization" of Computer Generated Fourier Hologram", Springer Lecture Notes in Electrical Engineering, 2020 (Scopus), DOI: 10.1007/978-981-13-real-time
- Meril Cyriac, Kanjana G, Nelwin Raj N. R, Leena Thomas, Sheeja M. K, "Modified Pupil Set Based Resolution Enhancement of Optical Scanning Holographic System", SPIE Optics & Optoelectronics Conference, Czech Republic, April 2019 (Scopus), DOI: 10.1117/12.2522841
- Roshan Varghese, Meril Cyriac, Sheeja M.K, "Cryptographic System Using Double Random Phase Encoding and Chaotic Shuffling", IEEE Proceedings of 2nd International Conference on Electronics Communication and Aerospace Technologies, ICECA, Tamil Nadu, March 2018 (Scopus), DOI: 10.1109/ICECA.2018.8474788

Research & Consultancy:

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Membership in Professional Organizations

- Life member ISTE
- IEEE Member

Conference/Paper Presentation:

- M. K. Sheeja, N. R. Nelwin Raj, Meril Cyriac, and Kanjana G., "Quadrant-mapping-based computer generated hologram compression", International Conference in Photonics Solutions, Thailand, November 2019 (Scopus), DOI: 10.1117/12.2552991.
- Meril Cyriac, Kanjana G, Nelwin Raj N. R, L Sheeja M. K, "Optical Scanning Holography using an Annular Walsh Function based Pupil", International Conference on Optics and Electro-Optics, Dehradun, India, October 2019.
- Kanjana G, Meril Cyriac, Nelwin Raj N. R, Leena Thomas, Sheeja M. K, "Phase-Coded

Multiplexing Technique for Holographic Data Storage System", Springer, International Conference on Optical and Wireless Technologies, Jaipur, March 2019.

- Kanjana G, Meril Cyriac, Nelwin Raj N. R., Leena Thomas, Sheeja M. K, "Holographic Recording of Microscopic images using Phase Shifting Interferometry", 31st Kerala Science Congress, Kollam, February 2019.
- Sheeja M. K., Nelwin Raj N. R., Meril Cyriac, Kanjana G., Leena Thomas "Recording Materials for Holographic Applications", International Conference on Advanced Materials - ICAM, New Delhi, January 2019.
- M. K. Sheeja, N. R. Nelwin Raj, L. Anusree, Leena Thomas, Meril Cyriac, and Kanjana G., "Reduction in computation complexity of Fresnel Transform through low-rank matrix approximation", 11th International Conference on Optics-Photonics Design and Fabrication, Hiroshima, Japan, November 2018.
- Roshan Varghese, Meril Cyriac, Sheeja M.K, "Arnold Scrambling based Optical Scanning Cryptography for Optical Communication", Proceedings of 2nd International Conference on Computing Methodologies and Communication, ICCMC, February 2018.
- Meril Cyriac, Kanjana G, Anusree L, Nelwin Raj N. R., Leena Thomas, Roshan Varghese, Sheeja M. K, "Secure Transmission and analysis of Optical Scanned Holographic Images for Efficient Communication", The 7th Laser Display and Lighting Conference 2018 (LDC'18), Japan, April 2018.