DR. CELINE MARY STUART
ASSOCIATE PROFESSOR

Contact Details

Office Address	: Dept. of AE&I,
	Govt. Engg. College, West Hill, Kozhikode - 673005
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	(Residence)

Professional Qualifications

B-Tech	Specialization	ECE
	Institute/University	Calicut University
	Year	1992
M-Tech	Specialization	Digital Systems and Communication
	Institute/University	NIT Calicut
	Year	2006
PhD	Specialization	Secure Channel Coding
	Institute/University	NIT Calicut
	Year	2017

Areas of Interest

- **Secure Communication, Physical Layer Security**

Professional Experience

- **Rajeev Gandhi Institute of Technology, Kottayam – 24.09.1999 to 10.12.1999**
- **Govt. Engineering College, Barton Hill – 13.12.1999 to 18.06.2007**
- **Govt. Engineering College, Kozhikode – 20.06.2007 to 04.06.2009**
- **Govt. College of Engineering, Kannur – 05.06.2009 to 24.07.2014**
- **Govt. Engineering College, Kozhikode - 25.07.2014-till date**

Responsibilities/Position

- **Head – Dept. of AE&I, Convener – Disciplinary Action committee, Member – Squad for University Examinations, Member – Antiragging committee, Course Co-ordinator – Analog and Integrated Circuits (KTU), Coordinator for B Tech ECE Examination 2017 – 18 (Calicut University).**

Publications

- **Celine Mary Stuart and P. P. Deepthi. "Nonlinear Cryptosystem Based on QC-LDPC Codes for Enhanced Security and Reliability with Low Hardware Complexity and Reduced Key Size."** *Wireless Personal Communications*: **1-21, 2017; DOI:10.1007/s11277-017-4376-z.**
- **Celine Mary Stuart and P. P. Deepthi. "FPGA implementation of highly secure, hardware-efficient QC-LDPC code–based nonlinear cryptosystem for wireless sensor**

networks." *International Journal of Communication Systems* – Wiley, 30 (10), 2017, DOI: 10.1002/dac.3233.

- Celine Mary Stuart, Spandana K., Dhanaraj K.J., Deepthi P.P., "Design and Implementation of Hardware-Efficient Modified Rao-Nam Scheme with High Security for Wireless Sensor Networks", *Journal of Information Security and Applications* – Elsevier; vol. 29, pp. 65 – 79, August 2016. DOI: 10.1016 /j. jisa .2016. 03.004.

- Celine Mary Stuart and Deepthi P. P., Article: "*A Novel Low Complexity Scheme for Improving Security of NLFG based Symmetric Key Cryptosystem using Secure Concatenated RS-QCLDPC Code*". International Journal of Security and Communication Networks – Wiley, 2015, DOI: 10.1002/sec.1215.

- Celine Mary Stuart, Nandan S. and Deepthi P. P., Article: "*Low Complex Crypto based Channel Coding with Turbo Code*", International Journal of Computer Applications 61(16): 39-44, January 2013.

- Celine Mary Stuart, Deepthi P.P., "*Hardware Efficient Scheme for Generating Error Vector to Enhance the Performance of Secure Channel Code*", International Conference on Signal Processing, Informatics, Communication and Energy Systems (IEEE SPICES-2015) Feb 19-21, Kerala, India.

- Celine Mary Stuart, Deepthi P.P., "*Low Complex System for Physical Layer Security Using NLFG and QCLDPC code*", Second International Symposium on Security in Computing and Communications (SSCC-2014), Springer, CCIS Series, September 24-27, New Delhi, India.

- Nandan S., Deepthi P.P., Celine Mary Stuart, "*Low Complex Crypto Based Channel Coding*", IEEE International Conference on Communication Systems and Network Technologies (CSNT 2012), May 11-13, 2012, Rajkot, India.

- Ashok L, Deepthi P.P., Celine M. Stuart, "*Embedding Secrecy in Channel Coding with Low Density Parity Check Codes*" pp 236-241, Proceedings of IASTED International Conference on Signal and Image Processing and Applications (SIPA 2011), June 22-24, 2011, Crete, Greece.