

# NELSA ABRAHAM

ASSISTANT PROFESSOR



## Contact Information

Official Address : Assistant Professor, Department of Electronics &  
Communication Engineering, Government Engineering College  
Barton hill, Trivandrum-695035

Email : nelsaarun2016@gmail.com

Phone : +91 9495975074

## Professional Qualifications

<b>B-Tech</b>	Specialization	Electronics Engineering
	Institute/University	College of Engineering, Adoor, CUSAT
	Year	2002
<b>M-Tech</b>	Specialization	OptoElectronics & Optical Communication
	Institute/University	Dept. Of OptoElectronics, Kerala
	Year	2010

## Area/Research Interests

- Nanoelectronics

## Professional Experience

- Assistant Professor in GEC, BartonHill (2008 to 2014)
- Assistant Professor in GEC, Idukki (2014 to 2015)
- Assistant Professor in GEC, BartonHill (2015 to till date)

## Responsibilities/Position (Department, College and University)

- Member Board of governance GEC BartonHill
- Nodal Officer, EAP, TEQIP II, GEC BartonHill, April 2017
- Co-ordinator IPR Cell GEC BartonHill
- Resident Tutor ladies hostel GEC Idukki
- PTA Treasurer GEC Idukki
- Staff Advisor 2010 ECE batch
- Staff Advisor 2014 ECE batch

## Publications (Journals/ International Conferences)

### International Journals

1. Nelsa Abraham, Alex rufus , Dr. unni C. and Dr. Daizy Philip, *Nanostructured ZnO with bio-capping for nanofluid and dye based solar cell applications, springer Journal of material science: materials in Electronics. July 2017.*
2. Nelsa Abraham, ankit parakh, Dr.Unni C, "Modeling and Simulation Studies of 22nm Multigate bulk FinFET Structures with Different Dielectric Materials , International Journal of Electronics Engineering research (IJEER), Volume 9 (2017).

### International Conferences

- 1.Nelsa Abraham, Ankit Parakh, Various architecture for detection of information using SAC- OCDMA for FTTH system, IEEE Explore February 2017 conference proceedings.
- 2.Nelsa Abraham, Anand V.S., Dr. Unni C. Studies on nanomaterial coated passive single mode fibre response in high speed optical systems, IEEE Explore digital library, October 2017 Conference proceedings
3. Nelsa Abraham, Chinchu Haridas, A highly secure quadruple key chaotic image encryption method, International conference on signal and speech processing ICSSP14 from 21-23 August 2014 at T.K.M Engineering College Kollam.

### National Conferences

1. Chinchu haridas and Nelsa Abraham, PAPR reduction technique based on a constant envelope OFDM using wavelet transform, *National Conference on Emerging Technologies, August 2014, GEC BartonHill*
2. Nelsa Abraham, Remya I.R, Sruthi P., Salini S, mammogram mass detection using morphological analysis with false detection, Ist national conference on emerging technologies, GEC Barton Hill July 2012.
3. Ankit parakh, Lijeesh Kumar A., Nelsa Abraham, Hybrid OCDMA Architecture for complete removal of noise for fast FTTH network, NCET 2016 at GEC BartonHill

4. Nelsa Abraham, Dr.Unni C., Microwave assisted rapid synthesis of semiconductor Zinc oxide nanoparticles, NCET 2016 GEC BartonHill

#### **FDPs, Workshops and Conferences attended**

- Electromagnetic wave- NITTR Kolkata (11-15 July 2016)
- Formulation of Research and Development Initiatives for Technologists and Scientists- ESCI Hyderabad (8-11 Feb 2016)
- National Workshop on Advanced Nan scale Device design using TCAD- College of Engineering Chenganoor (28 Dec – 1<sup>st</sup> Jan 2016)
- Green Nanotechnology in Materials Engineering and Energy Application- College of Engineering, Adoor (15-19 Dec 2016)
- Design for Circular Economy Innovation in Product design driven by ecology- GEC Barton Hill., TVM (17-21 July 2015)
- Synthesis and Characterisation of Nano Materials- Centre for Nano Science and Technology (14 – 18 March 2016)
- Advanced Computer Architecture- GEC Barton Hill., TVM (25th Feb – 2<sup>nd</sup> March 2015)
- Design for circular economy innovation in product design driven by ecology- GEC Barton Hill., TVM (17<sup>th</sup> to 21<sup>st</sup> July 2015)
- Instruction enhancement programme on advances in Nanoelectronics and technology- GEC Barton Hill., TVM (11-1-2010 to 16-1-2010)
- STTP on cloud computing and big data analysis- GEC Barton Hill., TVM (1-5April 2013)
- STTP on Emerging trends in Communication Engineering- GEC Barton Hill., TVM (18-23 March 2013)
- Recent advances in computing and communication technologies- GEC Barton Hill., TVM (21-29 January 2013)
- Formulation of research & Development initiatives for scientists and technologists- ESCI Hyderabad (24-27 November 2014)
- RF fundamentals and its applications- GEC Barton Hill., TVM (Jan 6-11 2014)