Pooja Mol Girish

International School of Photonics, Cochin University of Science and Technology, Kerala
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Objective

"Seeking a Master thesis Project where I may be able to work with any help and assistance which is in, the scope of knowledge and skills while learning the standard operating procedures."

Education

- **Cochin University of Science and Technology** **7.44/10 GPA**
  Integrated MSc in Photonics, 9th Semester *2015–Present*
- **Kerala State higher Secondary Board** **90.2%**
  Kerala State Higher Secondary Examination, *2014*

Research and Work Experience

- **International School of Photonics** **CUSAT, India**
  Academic Curriculum Project *December 2017 - April 2018*
  'Studies on Photonic Bandgap in 2-Dimensional Photonic Crystal using FDTD Simulation technique'
  Guide : **Dr Priya Rose T, Assistant Professor, International School of Photonics, CUSAT.**
  - Two dimensional photonic crystal was simulated based on FDTD methods using the software tool OptiFDTD by Optiwave Systems Inc.

Seminars Taken

- Fluorescent resonance energy transfer
- Nano drug delivery in cancer treatment
- Quantum dot-Fluorescence based DNA Biosensing
- Dendrimers and its clinical applications
- Cryogenic Microscopy

Computer Skills

- **Programming Languages:** C++, MATLAB, LATEX.
- **Application Softwares:** ORIGIN, MS OFFICE.

Coursework

- **Physics :** Classical Mechanics, Quantum Mechanics (Basic and Advanced), ElectromagneticTheory and Relativity, Thermodynamics, Solid State Physics(Basic and Advanced), NuclearPhysics.
- **Optics :** Opto-mechanical Engineering, Geometrical and Physical Optics, Atomic and Molecular Spectroscopy, Optical Instrumentation, Non Linear Optics, Optical signal processing, Quantum Optics.
- **Photonics :** Optoelectronics, Optical Communication, Nanophotonics, Nanobiotechnology, Biophotonics, Fiber Optics, Laser Physics, Laser Systems and Applications, Laser Spectroscopy.
- **Electronics :** Basic Electronics, Digital and Analog Electronics, Microprocessors and their Applications, Electronic Instrumentation, Digital Signal Processing, RF and Microwave Technology.
- **Mathematics :** Differential and Integral Calculus, Statistical Mechanics, Tensor Analysis, Mathematical Physics.
- **Lab Courses :** Basic Optics, Photonics, Analog and Digital Electronics, Microprocessor.

Participations and Activities

- Attended National Photonics Symposium 2019 at International School of Photonics, CUSAT
- Attended IONS, MAHE 2019 at Manipal University, Manipal
- Attended IONS KOCHI 2017 (International OSA network of students).
- Attended Annual Photonics Workshop (APW) (26th -28th February 2016) at International School of Photonics, Cochin University of Science and Technology (CUSAT).
- Active participation in Optics fair 2016 and 2017 at International School of Photonics,

References

Dr Priya Rose T
Assistant Professor, International School of Photonics
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