AMITH S P

International School of Photonics, Cochin University of Science and Technology, Cochin
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EDUCATION

Cochin University of Science and Technology *July 2015 - Present*
5 Year Integrated Master of Science in Photonics Overall CGPA: 7.2/10.0
International School of Photonics

HHSIBS Higher Secondary School, Edaneer *Jun 2012 - April 2014*
Secondary Education Overall Percentage: 86

CARRIER OBJECTIVE

Looking for an opportunity to work in an Institution which provide professional development and interesting experience in the area of Optics and Photonics.

PROJECTS

Study on Bessel Beam generation and its spot size with Axicon lens using microsecond pulse Nd:YAG Laser and its application in laser material processing

Last Semester Master Thesis Project at RRCAT, Indore
Guided by Dr. B.N. Upadhyaya, Scientific Officer (G), Laser Technology Division, Raja Ramanna Centre for Advanced Technology
December 2019 to Present

Solar Cell Tracker

6th Semester Mini Project
Guided by Dr. Bini P Pathrose, International School of Photonics
December 2017 to April 2018

Familiarization of Solar Cell.
The main objective of this project is to develop an Arduino Microcontroller based Solar panel tracking system. The perfomance and characterisitics of this device are experimentaly analyzed.

TECHNICAL STRENGTHS

Software & Tools : MS Office, Latex, Zemax, Labview, Origin
Languages : C++, Arduino IDL

WORK EXPERIENCE

Vibration Detector using Michelson Interferometer May 2018 – July 2018
Summer Internship offered by Eagle Photonics Private Ltd., Mumbai

· Our project includes the design and construction of Vibration Detector using Arduino Microcontroller. Experience in familiarization of optical fiber components and devices.

ADDITIONAL ACTIVITIES

- Member of OSA and SPIE student chapters.
- Organized IONS KOCHI 2017 (Internaional OSA Network of Students) and held responsible position.

- Active participation in optics fair programme 2016,2017 at International School of Photonics.
- Attended Annual Photonics Workshop(APW) and National Photonics Symposium(NPS) conducted at International School of Photonics, CUSAT.
- Attended LASER World of PHOTONICS INDIA 2018 in Bangalore.

COURSES UNDERTAKEN

Optics: Geometrical and Physical Optics, Atomic and Molecular Spectroscopy, Optical Instrumentation, Non-Linear Optics, Optical Signal Processing.

Photonics: Optoelectronics, Fibre Optics, Laser Physics, Biophotonics, Nanophotonics, Laser Spectroscopy, Industrial Photonics, Optical communication, Holography.

Electronics: Analog and Digital Electronics, Microprocessors, Electronic Instrumentation, Digital Signal Processing.

Physics: Classical Mechanics, Quantum Mechanics (Basic and Advanced), Electromagnetic Theory and Relativity, Thermodynamics, Solid State Physics (Basic and Advanced), Nuclear Physics.

Mathematics: Differential and Integral Calculus, Statistical Mechanics, Tensor Analysis, Mathematical Physics.

Lab Experience: Digital Electronics Lab, Analog Electronics Lab, Laser Lab, Photonics Lab, Optics Lab, Fiber Lab, Instrumentation Lab.

REFERENCE

Dr. Priya Rose
Assistant Professor
International School of Photonics
Cochin University of Science and Technology
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