HRUDYA T S

Five Year Integrated MSc in Photonics

International School of Photonics

Cochin University of Science and Technology

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OBJECTIVE:

To excel in the field of Optics and Photonics research and to understand its quantum aspects and thereby utilize my skill in challenging and creative environment.

RESEARCH INTERESTS:

Quantum Mechanics, Quantum Optics, BEC, Plasma Physics

ACADEMIC QUALIFICATIONS:

Currently in the 10th semester of 5 year Integrated MSc in Photonics at International School of Photonics, CUSAT, Cochin

University/Board	College/school	Examinations	Percentage of marks/GPA (on 10 point scale)
Cochin University of Science and Technology, Cochin, Kerala	International School of Photonics	5 year Integrated MSc. in Photonics (July 2015 - Present)	8.44

Kerala State	Government Model Girls Higher Secondary School, Irinjalakuda, Thrissur, Kerala	HSE Class 12	89.5 %
Kerala State	Little Flower Convent Girls High School, Irinjalkuda, Thrissur Kerala	SSLC Class 10	95%

PROJECTS UNDERTAKEN:

"Optical Emission Diagnostics of Laser Produced Plasma", under the guidance of Prof. Pramod Gopinath, International School of Photonics, CUSAT (11 months)

SEMINARS UNDERTAKEN:

Pulsars

Inertial Confinement Fusion

Squeezed Light

Polariton Condensate

J/ψ mesons and November revolution

Atom Laser

COURSES UNDERTAKEN:

- **OPTICS**: Physical Optics, Geometrical Optics, Optical Instrumentation, Applied Optics, Nonlinear Optics, Holography and Speckle Metrology
- **PHOTONICS**: Optoelectronics, Fiber Optics, Laser Physics, Quantum Optics, Optical Networkig, Laser spectroscopy, Industrial Photonics

- **PHYSICS**: Mechanics and Wave Phenomena, Electricity and Magnetism, Nuclei, particles and beams, Classical Mechanics, Statistical Mechanics, Thermodynamics, Atomic and Molecular Spectroscopy, Electromagnetic Theory and Relativistic Phenomena, Basic and Advanced Quantum Mechanics, Solid State Physics, Quantum Field Theory
- **ELECTRONICS**: Basic Electronics, Digital and Analog Electronics, Microprocessors and their Applications, Electronic Instrumentation
- **MATHEMATICS**: Statistical Methods, Vector Calculus, Matrices and Complex Numbers, Curvilinear Coordinates, Tensors, Vector Space, Differential Equations, Laplace Analysis, Fourier Analysis, Group Theory, Complex Variables, Non-linear Differential Equations.
- **LAB COURSES:** Basic Optics, Photonics Lab, Analog & Digital electronics, Microprocessor, Fiber lab

CONFERENCES AND WORKSHOPS ATTENDED:

IONS KOCHI 2017 at Cochin University of Science and Technology

Annual Photonics Workshop 2016 at International School of Photonics

National Photonics Symposium 2017, 2018, 2019 at International School of Photonics, CUSAT

EXTRA CURRICULAR ACTIVITIES:

Received the best mini project award of 2018 from International School of Photonics, CUSAT

Active member of ISP-OSA-SPIE student chapters since 2015

Organized IONS KOCHI 2017

Active participation in the optics outreach events Optics to School, Optics fair of International School of Photonics.

Office bearer of OSA-ISP 2018-2019 student chapter

COMPUTATIONAL SKILLS

C, C++, Python, matlab, origin

REFEREE

Dr. Pramod Gopinath
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I affirm that information provided here is true to best of my knowledge.

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