

NIKHIL.P.K

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10th SEMESTER, MSc PHOTONICS,

CENTRE OF EXCELLENCE IN LASERS AND OPTOELECTRONICS,

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY,

COCHIN, KERALA.

OBJECTIVE

- To work with a supporting team and to amend my knowledge and skills in the field of photonics and to contribute to the Indian science and humanity

EDUCATIONAL PROFILE

- Currently doing Master of Science (5 Year Integrated) in Photonics, 10th semester, Centre of Excellence in Lasers and Optoelectronic Sciences, Cochin University of Science And Technology, Cochin. 64.2% (Aggregate till 7th semester)
- Higher Secondary Examination (2002 – 04). Board of Higher Secondary Examinations, Kerala. Marks: 87%
- Secondary School Leaving Certificate (2002), Board of Public Examination, Kerala, Marks: 91%

COURSES UNDERTAKEN (in brief)

1st year: Geometrical and Physical optics, Nuclear Physics, Classical Mechanics, Mathematics, Basic Electronics etc.

2nd year: Optical Instrumentation, Atomic and Molecular Spectroscopy, Quantum Mechanics, Statistical Mechanics, Digital Electronics etc.

3rd year: Applied Optics, Fiber Optics, Laser Physics, Optoelectronics, Micro-processors etc.

4th year: Advanced solid state physics, Non linear Optics, Network analysis, advanced electromagnetic theory, Industrial photonics, Bio Photonics, Fiber optic communications etc.

AREAS OF INTEREST

- Core Interests: Laser matter interaction, Fiber optic communication, Optical sensors.
- Other Interests: Bio Photonics, Holography

PROJECTS

“Thin film preparation using spin coating”

A curriculum mini project for six months in which the preparation of thin films using spin coating was studied.

Guide: Dr. Sheenu Thomas,
Center of Excellence in lasers and optoelectronic sciences,
Cochin University of Science and Technology.

Industrial training in Quality Photonics in White LEDs.

Guide: Dr. Vijay Gupta

**SEMINARS
PRESENTED**

- History of Chaos
- Cathode ray oscilloscope
- Magnetic resonance imaging
- E-Bomb
- Speckle interferometry
- Thin film preparation using spin coating
- Holographic memory storage
- Tunable lasers
- Frequency resonance energy transfer

ACHIEVEMENTS

- ☐ Active member in ISP-OSA Student Chapter and participated in conducting “Optics to School”.
- ☐ Member of organizing committee in various other departmental events.

**PERSONAL
INFORMATION**

NAME: NIKHIL.P.K
SEX: MALE
FATHER’S NAME: Pradeep Kumar K
MOTHER’S NAME: Pushpavally P K
AGE: 21
DOB :29-03-1987
NATIONALITY : INDIAN
LANGUAGES KNOWN: Malayalam, English , Hindi.

REFERENCES

- Prof.R. Radhakrishnan
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- Dr. JOBY JOSEPH
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