Anees Mehaboob

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OBJECTIVE

To secure a Job position in an Optics and Photonics related organization where I can use my skills, knowledge and experience for it's growth and success.

ACADEMICS

International School of Photonics,CUSAT
5 Yrs Integrated M Sc in Photonics
Expected May, 2020 CGPA: 7.7/10.00

GHSS Mezhathur,Mezhathur
Class XII (Higher Secondary Education)
July 2014 Aggregate 86%

Darul Uloom English School, Kappur
Class X (Secondary Examination), CBSE
July 2012 CGPA: 8.8/10

COURSES UNDERTAKEN

•Optics - Gometrical optics, Physical Optics, Optical Instrumentation, Non-linear optics, Applied optics.
•Photonics - Laser Physics, Fiber Optics, Optoelectronics, Biophotonics,Nanophotonics, Laser Spectroscopy, Industrial Photonics, Optical Communication, Digital and Optical signal Processing.
•Electronics - Digital and Analog electronics, Microprocessor and their Applications, Electronic Instrumentation.

TECHNICAL SKILLS

• **Compuoter skills** - MS Office, Matlab, Latex, Origin, Full Prof Suite, Unity

•**Lab Experience** - Photonics, Fiber Optics, Basic Optics, Digital and Analog Electronics, Microprocessor, Instrumentation.

PROJECTS UNDERTAKEN

Erbium with heavy metals (Pb-Sc-Hf) doped silica glass optical fiber for use as optical amplifier in C+L band region

•Duration : Dec 2019 - Present
•Under Dr. Mukul Chandra Paul, CSIR - CGCRI, Kolkata

Analysis of nanoparticles using Reitveld refinement

•From May to July 2018 at NIT Meghalaya, under the supervision of Dr. Tribedi Bora, Professor, NIT Meghalaya
•The polycrystalline samples of Cobalt ferrite were prepared by the standard sol-gel route method.
•The reitveld refinement of XRD patterns of the sintered samples were done using FullProf Suite software.
•Size Calculation were done using both Reitveld method and Scherrer's method

Synthesis and Characterization of GeAsS Chalcogenide Glasses for Photonic applications

• From Dec 2017 to Apr 2018 under the supervision of Dr.Sheenu Thomas, Professor, ISP, CUSAT
•The GeAsS Chalcogenide Glass were prepared using melt quenching method.
•The characterization studies were done using techniques like XRD, EDAX, FT- IR Spectroscopy, UV-Vis-NIR spectroscopy, DSC calorimetry.

PUBLICATIONS

Tunable optical bandgap in ternary Ge-As-S chalcogenide glass, AIP conference proceedings 2082, 030024 (2019);https://doi.org/10.1063/1.5093842

CONFERENCE CONTRIBUTIONS

• Poster title - ***Structural, thermal and optical characterization of Ge-As-S amorphous chalcogenide glass for infrared photonics,*** was presented at National Photonics Symposium 2019 held at International School of Photonics,CUSAT.

• Paper title - ***Tunable optical bandgap in ternary GeAs-S chalcogenide glass,***was presented at ICONMAT -2019 held at Department of Physics, CUSAT

SHORT COURSE

Short Course and Hands on Workshop on *"Nanoscale Interaction of Laser with matter"*organized by Indian Laser Association (ILA), RRCAT, Indore.

ACTIVITIES

Conferences

• National Laser Symposium organized by Indian Laser Association at RRCAT, Indore.
• ICONMAT - 2019 held at Department of Physics, CUSAT
•Participated in National Photonics Symposium 2018, 2019 held at International School of Photonics, CUSAT, India (27th February-1st March).
•Participated in IONS (International OSA Network of Students) Kochi, India, and (11th September 14th September 2017).
•Active participation in Optics fair 2016,2017 and 2020 at International School of Photonics, CUSAT.

Seminars taken

•Mid IR spectroscopic sensing
•Silicon Photonics
•Optical Tweezers
•LIDAR

AFFILIATIONS

•Optical Society Of America
•Society of Photo-Optical Instrumentation Engineers
•Indian Laser Association

REFERENCES

•Dr. Sheenu Thomas, Professor, International School of Photonics,CUSAT,Kerala,India, Phone - 0484-2575848, Email-st@cusat.ac.in
•Dr.Priya Rose, Asst.Professor, International School of Photonics, CUSAT,Kerala, India, Email-priyarose@cusat.ac.in