
JEENU JEGY

 **DEPARTMENT OF PHYSICS . UNIVERSITY COLLEGE . THIRUVANANTHAPURAM, INDIA**
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EDUCATION

University of Kerala

MSC PHYSICS COLLEGE RECORD

- Completed three semesters of Master's course
- Percentage (at the end of three semesters) : 85.09%

University College, Thiruvananthapuram

Nov 2020- Oct 2022

University of Kerala

BSC PHYSICS COLLEGE RECORD

- Completed 3 years of Bachelor's course
- Completed BSc Final Year Project
- CGPA : **9.215/10** (College level 1st rank holder)

St. Gregoris College, Kottarakkara

Jul 2017 - Aug 2020

Kerala State Board HSE

CLASS 11TH AND 12TH SCHOOL RECORD

- Marks scored (percentage) : **99.43** (1st rank holder in school out of 180 students appeared).

Government H.S.S Thevannoor

May 2014 - Mar.2016

Central Board of Secondary Education

CLASS 10TH SCHOOL RECORD

- CGPA : **10** (School level 1st rank holder)

Cherupushpa Central School, Ayoor

May 2013 - Mar.2014

RESEARCH EXPERIENCE

Current Project

Guide : Dr. Saji S K, Department of Physics, University College Thiruvananthapuram (May 2022-present)

Combustion Synthesis, Rietveld refinement and optical studies of CaTiO_3 perovskite

- Synthesized the sample by modified combustion method, from XRD data detailed structural analysis was carried out by rietveld refinement and UV spectral studies for optical characterization

Summer Internship (IUAC, New Delhi)

Guide : Dr Ambuj Tripathi & Dr Sunil Kumar

(Jun2020)

Defect Characterization in Graphene by Raman Spectroscopy

- Observed Raman spectrum of Graphene, Analyzed various bands and found the disorder parameter

Major Project

Guide : Dr. Indulal C R, Department of Physics, St Gregorios College, Kottarakkara (June 2020-Nov 2020)

Photocatalytic degradation of Bismarck brown dye using CuO nanoparticles

- Nanoparticles of Copper oxide were synthesized by chemical co-precipitation method, XRD analysis reveals the nanocrystalline nature, SEM images give the surface morphology of the spherical nanoparticle, optical studies were carried out using UV analysis and Photocatalytic degradation power of CuO nanoparticle was studied against Bismarck Brown dye.

B.Sc Project

Guide : Dr. Indulal C R, Department of Physics, St Gregorios College, Kottarakkara (April 2020-May 2020)

Structural and Optical studies of KdP crystal

- The nanocrystal was synthesized by slow evaporation method, structural and optical characterization were carried out by XRD analysis and UV-Vis Spectroscopy respectively.

COURSES, CONFERENCE, CAMPS

Course on Interferometry

IUCAA, Pune

(July 2020-Oct 2020)

- Successfully completed three months course and cleared the written exam

Sankaram 2020 Science Conference

KSCSTE and Sree Sankara College, Thiruvananthapuram

(Nov 2020)

- Presented the paper 'Photocatalytic degradation of Bismarck Brown dye using CuO nanoparticles' and the paper get selected for publishing.

STEP IISER

IISER, Thiruvananthapuram

(May 2017)

- Attended seven days camp and also visited many labs across the city.

RPWS

IISER, Thiruvananthapuram

(Dec 2022)

- Attended seventeen days winter school in IISER.

SCHOLARSHIPS AND AWARDS

- Prathibha Scholar (2017-2020) (KSCSTE, Thiruvananthapuram)
- National Science Olympiad

EXTRA CURRICULAR ACTIVITIES

• Poetry	<i>State level 2016</i>
• Extempore	<i>State level 2014</i>
• Essay Writing	<i>State level 2012</i>
• Recitation	<i>District level 2016</i>
• Short story Writing	<i>District level 2015</i>
• Speak For India	<i>District Level 2019</i>
• Quiz Competition	<i>Intercollegiate level 2019</i>
• Paper presentation	<i>Intercollegiate level 2019</i>
• School Kalathilakam	<i>2013,2014,2016</i>
• N S S	<i>2013-14&20118-19</i>

REFERENCES

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