MULLAPUDI NIHARIKA

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# Objective

An aspiring chemistry enthusiast interested to build a career in the field of Chemical Sciences with focus on R&D, inline with the current and future innovations.

# Education

Amrita Vishwa Vidyapeetham, Coimbatore *July 2017- June 2022*

Integrated Master’s in Chemistry

CGPA- 7.92/10 (First division with Distinction)

Kendriya Vidyalaya No.2, Uppal, Hyderabad- CBSE *July 2015- May 2017*

12th grade

Percentage of score- 83%

Kendriya Vidyalaya No.2, Uppal, Hyderabad- CBSE *May 2009- April 2015*

10th grade

CGPA- 10/10

# Research Experience

Dr. Gangadharan D., Assistant Prof, Amrita Vishwa Vidyapeetham Oct 2021- June 2022

Position- Master's thesis

Title- “MoS2 Nanoparticle for adsorptive removal of Cu (II) ions from E-waste”

(Under preparation)

# Laboratory training

Laboratory techniques including reflux, distillation, recrystallization, vacuum filtration and synthesis of organic compounds like Acetanilide, p-nitroacetanilide, p-bromoacetanilide.

Quantitative analysis of metals in a mixture of inorganic compounds using Gravimetry, Iodometry, Permanganometry.

Separation techniques like Thin Layer Chromatography, Column chromatography.

Compound Characterization through IR, 1H NMR, 13C NMR, SEM, XRD.

Synthesis techniques of materials like Hydrothermal, Co-Precipitation, Sol-Gel, Ultrasonication, CVD (Mo, W, Cu, Mn, Ag NPs).

Drawing organic molecules using Chemdraw/ChemSketch.

IR sample preparation, recording and analysis using OriginPro 8.5 software.

XRD sample recording and analyzing using OriginPro 8.5 software.

# Activities

Team Manager of Prize Handling Department in ANOKHA - 2020 (A National Level Tech Fest) at Amrita Vishwa Vidyapeetham, Coimbatore.

Coordinator of SAHAYA Club - 2020 (Social Welfare Club).

Participated and volunteered in SCICON International Conference -2019 at Amrita Vishwa Vidyapeetham, Coimbatore.

Volunteer of Prize Handling in ANOKHA - 2019 (A National Level Tech Fest).

Certificate of Participation in INTRA-REGIONAL LEVEL NATIONAL CHILDRENS’’SCIENCE CONGRESS (2013 and 2015).

# Awards and Achievements

Letter of appreciation from Former HRD Minister Mrs. Smriti Zubin Irani, Government of India, for achieving 10 CGPA in Secondary School Examination 2015 by CBSE.

Completed KALA PRAVESHIKA and KALA PRARAMBHIKA course in Kuchipudi Dance.

# Languages

English, Hindi, Telugu.

# Computer Skills

**Programming:** Basic C Programming, C++.

**Softwares:** OriginPro 8.5, LaTeX, Powerpoint, MS Excel, MS Word

# Certifications -Online Courses

Nanotechnology and Nanosensors, Technion - Israel Institute Technology May 2020

Introduction to Solar Cells, Technical University of Denmark (DTU) June 2020

Organic solar cells -Theory and Practice, Technical University of Denmark (DTU) June 2020

DNA Decoded, McMaster University

June 2020

# Conference and webinars attended

State Level Webinar Series on the topic RETROSYNTHESIS at Anna Adarsh College delivered by Dr.S.Kabilan - July 2020.

State Level Webinar Series on the topic Application of IR Spectroscopy to Metallic Carbonyls delivered by Dr.S.R.Bheeter - July 2020.

SCICON International Conference -2019 at Amrita Vishwa Vidyapeetham, Coimbatore.