

AMRITHA SREE.K

MASTER'S GRADUATE IN CHEMISTRY

CONTACT

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📍 Palakkad, Kerala

SKILLS

- Hands on experience in using UV-visible spectroscopy
- Hands on experience in using IR-spectroscopy
- Hands on experience in using Universal testing machine
- Chemical synthesis and characterization
- Data analysis using MATLAB and ChemDraw.
- Laboratory safety standards and quality compliance
- C-programming

LANGUAGES

- English (Fluent)
- Malayalam (Fluent)
- Tamil (Fluent)
- Hindi



EDUCATION 2019 - 2024

Integrated MSC chemistry

School of physical sciences
Amrita Vishwa Vidyapeetham



PROFILE

I am a motivated Master's graduate in Chemistry with a strong academic foundation and a passion for scientific research and innovation. I am deeply interested in exploring new materials, sustainable chemistry solutions, and advanced chemical processes. With excellent problem-solving skills and a commitment to accuracy, I aim to contribute to impactful research and development in the field of chemistry.



PROJECTS

Quality Control and Chemical Analysis FACT, Kochi

Gained hands-on experience in environmental analysis and monitoring at FACT, Kochi. Conducted water quality assessments and analyzed various parameters, including pH, suspended solids, ammonia, nitrate, and chemical oxygen demand. Developed a strong understanding of wastewater treatment processes and environmental regulations. Gained proficiency in using laboratory equipment and instrumentation.

Extraction and characterization of nano cellulose from bio waste for using it as bio fillers Apollo tyres Global R&D Centre, Chennai

Engaged in the research and development of nanocellulose, including raw material selection, synthesis, and characterization. Conducted quality control testing and assisted with laboratory experiments, data analysis, and equipment troubleshooting. Developed practical experience with analytical techniques such as Universal Testing Machine (UTM), Fourier Transform Infrared Spectroscopy (FTIR), UV-Vis spectroscopy, and thermal analysis (DTA and TGA).

Synthesis of Ca containing copper ferrite for water treatment and using the treated water for the growth of *Vigna Radiata* Amrita Vishwa Vidyapeetham

Investigated Ca-doped copper ferrites for anionic dye removal. Characterized materials using XRD, SEM, and BET. Batch adsorption studies were conducted to evaluate the influence of various parameters, such as contact time, initial dye concentration, adsorbent dosage, solution pH, and temperature. The adsorption isotherms and kinetic models were analysed to gain insights into the equilibrium behaviour and rate of adsorption, respectively. Regeneration studies were carried out to assess the reusability of the adsorbent. The dye treated water was used for the growth of *vigna radiata* and it showed more efficient in the treated water than normal tap water