

AADITHYA CHANDANA K S

Polymer Science graduate



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PROFILE SUMMARY

Dedicated and enthusiastic Polymer Science postgraduate with strong fundamentals in polymer synthesis, characterization, and formulation. Seeking a quality control or research-based role in the polymer or materials sector to apply my technical skills and academic training.

EDUCATION & CERTIFICATIONS

MSc. Polymer Science

CIPET-IPT Kochi, Cochin University of Science and Technology
2023 – 2025 | CGPA: 8.3/10

BSc. Chemistry

Sree Kerala Varma College, University of Calicut
2020 – 2023 | CGPA: 8.2/10

Scientific Social Responsibility (SSR) Internship

Corporate R&D Centre, HLL Lifecare Ltd
Funded under SERB initiative on topic “ Hydrogel forming Microneedle arrays for non invasive point-of-care testing of Neonatal Sepsis

Rubber product manufacturing & Testing

NIRT, Rubber Board - Rubber manufacturing, compounding, property enhancing materials, specification and testing,

Plastic Processing & Quality Control

Central Institute of Petrochemicals Engineering & Technology (CIPET)

PROJECTS

Postgraduate:

“Development and Evaluation of Hydrogel Forming PVA-Based Microneedles”

- Focused on drug delivery and diagnostic applications using PVA microneedles.
- Effects of crosslinker on the properties of the microneedles were analyzed through Physical and Mechanical characterizations.
- The study revealed that the fabricated microneedles showed good swellability, dye uptake, good thermal stability and mechanical properties.

Graduate:

“Solvent Triggered Self-Folding Behaviour of Chitosan Film”

- Investigated self-folding behaviour of biopolymer films in response to solvent stimuli.

SKILLS

Technical Skills

Processing Techniques:

Injection Moulding | Blow Moulding | Compression Moulding | Twin screw Extrusion | Blown Film Extrusion

Testing & Characterization:

FT-IR | UV-Visible Spectroscopy | UTM | MFI | TGA | DSC

Software Skills

Origin | Canva | MS Office

Soft Skills

Analytical thinking | Optimized efficiency | Teamwork | Leadership | Communication | Punctuality | Critical Thinking | Ethical

LANGUAGES

English - Fluent

Tamil - Conversational

Malayalam - Native

Hindi - Basic

REFERENCES

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