

Name: Ms. K. Varuna M.Tech (Ph.D)

Designation: Assistant Professor

Areas of Specialization

Nanomaterial Synthesis and Characterization

Wastewater Treatment & Photocatalytic Processes

Nanomaterial Toxicology

Theranostics

Google Scholar ID: [JRwRZg8AAAAJ](https://scholar.google.com/citations?user=JRwRZg8AAAAJ)

Scopus ID: [57211951806](https://scopus.com/authid/detail.url?authorID=57211951806)

Researcher ID: [AAY-7343-2020](https://orcid.org/0000-0002-4429-1538)

Vidwan ID: <https://nct.irins.org/profile/164544>

ORCID ID: [0000-0002-4429-1538](https://orcid.org/0000-0002-4429-1538)

Email ID: varunak@nct.ac.in

Contact No: 90036 71011

Patents Granted

1. UK Design Patent – **6373927 dt. 16 July 2024**
2. Indian Design Patent – **416425-001 dt. 10 May 2024**

Awards/ Recognitions

37 BEST PRESENTATION Awards won (from 2022 onwards)

SEED Money Received from the Institution

Rs. 20,000/- for the project titled “**Green Metal Oxides as Anti-fouling Agents for Wastewater Treatment**”

Highest Impact Factor for Publication

11.07 (Journal of Cleaner Production - 2022)

Expertise/ Resource Person

- ✓ Nanomaterial synthesis & characterization
- ✓ Statistical analysis
- ✓ Bioreactor operations
- ✓ Downstream processing
- ✓ Transfer Phenomena
- ✓ Bioinstrumentation Techniques

Products developed

1. Ready-made DNA Isolation Kit for School students
2. Instant Wine Preparation Kit for Beginners (Cold Crash)

Administrative Positions Held

Admission Co-ordinator, DBT - PG Teaching Scheme (2020 – PRESENT)

Departmental Co-ordinator, MOOC Courses (2018 – PRESENT)

Departmental Co-ordinator, Internal Quality Assurance Cell (IQAC) (2020 – 2022)

Departmental Co-ordinator, NIRF (2020 – 2022)

Vice-President, Biotechnology Association (2020-2021)

Departmental Co-ordinator, DBT - STAR College Scheme (2019 – 2022)