

Dr. Binitha N N

Professor & Head

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Office: Department of Chemistry,
University of Calicut



Educational Qualifications:

- Doctor of Philosophy (Ph. D.) Cochin University of Science and Technology, Kochi. (2001 - 2007) Supervisor: Professor S. Sugunan
- Master of Science (M. Sc) in Applied Chemistry, Cochin University of Science and Technology, Kochi. (1999 - 2001)
- Bachelor of Science (B. Sc) in Chemistry, University of Calicut (1996 - 1999)

Post-doctoral research experience:

- 1 Year (2008 -2009): Postdoctoral Fellow, Department of Chemical and Process Engineering, National University of Malaysia, UKM Bangi, Selangor, Malaysia.
- 2 Years (2012 - 2014): UGC Research Awardee, Department of Chemistry, Sree Neelakanta Govt. Sanskrit College, Pattambi, Palakkad.
- Research Guide under University of Calicut: From October 2012 onwards

Professional:

Positions Held (University of Calicut)

- Head, Department of Chemistry (Feb 2025 – Present)
- Professor, Department of Chemistry (Mar 2022 – Present)
- Director, College Development Council (CDC) (2024 – Present)
- Implementing Officer, Interuniversity Centre for Hydrogen and Energy Storage (CHES) (2024 – Present)
- Coordinator, IPR Cell (2025 – Present) | Assistant Coordinator (2023 – 2025)
- Chairperson, PG Board of Studies in Chemistry (2023 – Present)

- Founder & Lead, UOC Graphene Solutions Pvt. Ltd. — the first faculty start-up of University of Calicut

Other Academic / Administrative Roles:

- Governing Body Member, SAFI Institute of Advanced Study (2023 – Present)
- Academic Council Member, Vimala College, Thrissur (2023 – Present)
- Board of Studies Member, M.Sc. Analytical Chemistry, Maharaja's College, Ernakulam (2022 – Present)

Earlier Appointments:

- Associate Professor, Sree Neelakanta Govt. Sanskrit College, Pattambi (2019 – 2022)
- Assistant Professor, same institution (2006 – 2019)
- Postdoctoral Fellow, National University of Malaysia (2008 – 2009)
- UGC Research Awardee (2012 – 2014)

Awards and Honors:

- UGC Research Award (2012-2014)
- EFCS Young Scientist Award – 2020 by EFCS (Emerging Frontiers in Chemical Science) Conference, Farook College, Calicut)

Graduate & Post-graduate Teaching Experience:

- 18+ years of UG & PG teaching
- Courses Taught (PG): Industrial Catalysis, Green Chemistry, Nanochemistry, Stereochemistry, Organic Spectroscopy, Organic Reaction Mechanism
- Courses Taught (UG): Green Chemistry, Nanochemistry, Electrochemistry, Organic Chemistry, Organic Spectroscopy

Teaching Interests:

- Post-graduate Level: Industrial Catalysis, Green Chemistry, Nanochemistry, Stereochemistry, Organic Spectroscopy, Organic Reaction Mechanism.
- Undergraduate Level: Green Chemistry, Nanochemistry, Electrochemistry, Organic Chemistry, Organic Spectroscopy

Research Profile:

- Research Experience: ~19 years

- Ph.D. Students Supervised: Completed – 8 | Ongoing – 8
- Postdoctoral Research Guidance: 2

Research Areas:

- Energy & Applied Materials: Graphene-based nanocomposites; Supercapacitors; Flexible electronics; Polymer nanocomposites; Biosensors
- Nanoscience & Materials Chemistry: Metal oxide nanostructures; Mesoporous materials; Polymer/clay nanocomposites
- Green Chemistry & Catalysis: Solid acids/bases; Photocatalysts; Multicomponent organic reactions

Major Projects Undertaken as Principal Investigator:

- High-quality graphene-based nanocomposites for supercapacitors (KSCSTE) – ₹19.5 Lakhs (2021–2024)
- Graphene-based materials for organic transformations (CSIR) – ₹5.5 Lakhs (2017–2020)
- Industrial-scale biodiesel production over nanocatalysts (DST) – ₹47.7 Lakhs (2011–2014)
- Multicomponent reactions over clays (UGC Research Award) – ₹3 Lakhs + salary support (2012–2014)

Patent: 1

- 1. N N Binitha, M R Resmi, V V Vinu, S Sreenikesh, K C Sudha, PROCESS OF PREPARATION OF BIODIESEL FROM TRIGLYCERIDE OILS, Indian patent No. 435494, Filed: July 2017, Granted June 2023.

Google Scholar Citations Data

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