

CURRICULUM VITAE

Dr. Firdoos Ahmad Itoo

Assistant Professor of Chemistry

Address Village Aho Paison, District Anantnag, Jammu & Kashmir, India
Phone 9596056111
ResearchGate <https://www.researchgate.net/profile/Firdoos-Itoo>

PROFESSIONAL PROFILE

Assistant Professor of Chemistry with **19 years of teaching experience** at undergraduate (UG) and postgraduate (PG) levels. Experienced in classroom teaching, laboratory instruction, student project supervision, and research in physical chemistry and surfactant-based systems.

EDUCATIONAL QUALIFICATION

Ph.D. in Chemistry — Jamia Millia Islamia, New Delhi. Doctoral research was carried out under the supervision of Prof. Anwar Ali.

Ph.D. Research Title: *Physico-Chemical Behaviour of Amino Acids and Dyes in Aqueous Solutions of Surfactants.*

M.Sc. Chemistry — Aligarh Muslim University (AMU).

TEACHING EXPERIENCE

- 19 years of teaching experience in Chemistry at UG and PG levels.
- Teaching and laboratory experience in Physical Chemistry and related areas.
- Supervision and academic mentoring of postgraduate students.
- Supervision of M.Sc. student research projects.
- Supervision of 8th-semester undergraduate student projects.

RESEARCH INTERESTS

- Physico-chemical studies of amino acids and dyes in aqueous solutions of surfactants.
- Surfactant–solute interactions and micellization phenomena.
- Volumetric, viscometric, conductometric and related physicochemical investigations.
- Thermodynamic and molecular-level studies of surfactant systems.

RESEARCH PROFILE

The ResearchGate profile associated with Firdoos Itoo currently lists **11 publications** and research activity in Chemistry. The profile includes work on amino acid–sodium dodecyl sulphate (SDS) interactions, SDS–tartrazine systems, methanol–water mixtures, and related physicochemical and theoretical studies.

The doctoral research topic is independently confirmed by the Jamia Millia Islamia Department of Chemistry research record and thesis abstract.

SELECTED RESEARCH PUBLICATIONS

1. Interaction of Some Amino Acids with Sodium Dodecyl Sulphate in Aqueous Solution at Different Temperatures.
2. Density functional aspects and thermodynamic evaluation of sodium dodecyl sulphate in aqueous tartrazine.
3. Density Functionalized Drug-Surfactant Interaction of Aqueous SDS-Tartrazine.

4. Experimental-DFT interface of hydrogen bonding description of 1:10 methanol-water solution.
5. Surfactant Material Properties and Coronavirus Surface: A Surface Interaction for COVID-19 Treatment and Vaccination.
6. Organic Functional Group Modified Biochar-Based Composites and Their Applications (book chapter).

STUDENT PROJECT SUPERVISION

Supervised M.Sc. Chemistry students in project work and guided 8th-semester undergraduate students in carrying out academic/research projects, including project planning, experimental work, interpretation of results, and preparation of project reports.

ACADEMIC & RESEARCH STRENGTHS

- Physical Chemistry and solution chemistry
- Surfactant chemistry and micellar systems
- Amino acid and dye–surfactant interactions
- Thermodynamic and physicochemical characterization
- UG/PG teaching and laboratory training
- Student research-project supervision

Note: Research-publication information in this CV has been cross-checked against the provided ResearchGate profile and publicly available Jamia Millia Islamia records. The ResearchGate page currently displays 11 publications.