

ATIA SHAMIM***Department of Chemistry***

NED University of Engineering & Technology, Karachi

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ACADEMIC QUALIFICATION***PhD 2021 (in Progress)***

Department of Chemistry, University of Karachi

M.Phil. (1st division) 2016

Analytical Chemistry, International Centre for Chemical & Biological Sciences, University of Karachi

M.Phil. Thesis Dissertation

- *Design & Synthesis of silica hybrid magnetic nanoparticles and their analytical Applications, under the supervision of Dr. Muhammad Raza Shah, at International Center for Chemical and Biological Sciences, University of Karachi, Pakistan.*

RESEARCH INTEREST

- Design and synthesis of nanomaterials and their applications

PROFESSIONAL EXPERIENCE**FEDERAL URDU UNIVERSITY OF SCIENCE & TECHNOLOGY (2017)**

- *Worked as a Contract lecturer in the Department of Chemistry, Federal Urdu University of Science and Technology, Gulshan-e- Iqbal Campus, 2017.*

THEORY COURSES TAUGHT

- *BS Courses: Analytical Chemistry, Environmental Chemistry, Electroanalytical Techniques*

PRACTICALS CONDUCTED (Undergraduate)

- *BS Labs: Environmental Chemistry, Analytical Chemistry*

NED UNIVERSITY OF ENGINEERING & TECHNOLOGY (November 2018)

- *Working as a lecturer in the Department of Chemistry, NED University of Engineering & Technology since November 2018.*

THEORY COURSES TAUGHT

- **BS Courses:** Analytical Chemistry I (CY 120), Analytical Chemistry II (CY 209), Textile Chemistry (TE-111), Inorganic Chemistry (CY 205)
- **BE Courses:** Chemistry for Engineers (CY110) (Physical as well as online)
- **MS Courses:** Separation Techniques (CY-404)

DESIGN OF LABORATORY EXPERIMENTS:

Compiled and organized laboratory experiments and manuals for the following BS Courses

- Industrial Chemistry lab IV (CY 207)
- Essentials of Chemistry (CY 100)

PRACTICALS CONDUCTED

- Applied chemistry for Engineers (CY 110), Textile Chemistry (TE-111), Industrial Chemistry lab III (CY 206), Industrial Chemistry lab IV (CY 207), Industrial Chemistry lab V (CY 310), Analytical Chemistry, Essentials of Chemistry (CY 100).

FINAL YEAR PROJECT

- Co-supervised Final Year Project titled “**Silane-coated magnetic nanoparticle**”. (2019-2020)
- Supervising Final Year Project titled “**Design & Applications of multifunctional metal oxide**” 2025.
- Supervising Final Year Project titled “**Synthesis of Biodegradable Films for Packaging**” 2025.

ADMINISTRATIVE DUTIES:

DEPARTMENTAL OBE TEAM MEMBER:

- Participated in departmental meetings and workshops focused on curriculum improvement and accreditation readiness.
- Designed and aligned Course Learning Outcomes (CLOs) with Program Learning Outcomes (PLOs) to ensure curriculum coherence and accreditation compliance.
- Contributed to the preparation of OBE documentation & assessment tools.
- Supported faculty members in data management, performance analysis, and quality enhancement under the OBE system.

CLASS ADVISOR & COUNSELLER (2019-2020), (2022- to date)

- Have been serving as a class advisor of BS second Year in (2019 to 2020), (2022 to date). This includes all management tasks, such as student consultation, semester-wise teacher dealings, and arrangement of classes, as well as maintaining course files.
- Have been serving as a class advisor of the BS second Year since October 2022 to date.

FACTOTUM (2019-2020) , (2022 to date)

- *Have been serving as factotum of BS second Year Semester Examination. This includes supervision of examination in the presence of invigilators & relevant duties, dealing with scripts to and from the examination department.*

INDUSTRIAL VISITS & INTERNSHIPS

- *Industrial Visit of BS second Year was organized and conducted at the International Centre of Chemical and Biological Sciences in 2020.*
- *Industrial Visit of BS Third Year was organized and conducted at the International Center of Chemical and Biological Sciences on 1st April 2022.*
- *Arranged internship for the students of BS Second Year, Batch 2022 & 2023 in Archroma Pakistan Limited.*
- *Arranged an internship for the students of Batch 2021 in Al-Abbas Fabrics.*

SCHOLARSHIPS

- *Indigenous Scholarship for PhD, Phase II, Batch V, 2018*
- *Chinese Government PhD Scholarship, 2017.*

TRAININGS

- *Manual of OBE System Framework, 2022-23*
- *KOHA open software source, 2023.*
- *Workshop on Course design, 2024*
- *Web Page development, 2024*
- *Effective Quality Management Audits, 2024*
- *Web page development & update, 2022*
- *Attended Faculty development lectures organized by NED University of Engineering & Technology, 2018.*
- *National workshop on Chemical laboratory Safety & Security in Universities of Pakistan 2011*
- *Workshop on Scientific Writing, 2013.*

CONFERENCES & SEMINAR

- *Participated and organized in the 1st International Industrial Chemistry Conference, 2021.*
- *Participated and organized in the 2nd International Industrial Chemistry Conference, 2023.*
- *Attended the IYCr South Asia Summit meeting conference on Structural Chemistry, 2014.*
- *Attended the 4th International Symposium cum training course on Molecular Medicine and Drug Research, 2013.*
- *Attended 9th International & 21st National Chemistry Conference, 2011*

REFERENCES

- *Will be furnished on request.*