



NABEEL AKHTAR

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WORK EXPERIENCE

 **POLYMER INSTITUTE OF THE SLOVAK ACADEMY OF SCIENCE** – Bratislava , Slovakia

City: Bratislava | Country: Slovakia

PhD/Doctoral Student

[30/10/2025 – Current]

EDUCATION AND TRAINING

PhD/Doctoral Degree

Slovak Technical University [30/10/2025 – Current]

City: Bratislava | Country: Slovakia | Field(s) of study: Chemical and Food Technology

M tech in Nanotechnology

Department of Interdisciplinary, Aligarh Muslim University [11/08/2023 – 15/08/2025]

City: Aligarh | Country: India | Final grade: 9.472/10 CPI | Level in EQF: EQF level 7

Master's degree in Chemistry

Department of Chemistry, Aligarh Muslim University [14/08/2021 – 10/09/2023]

City: Aligarh | Country: India | Final grade: 7.25/10 CGPA | Level in EQF: EQF level 7

Bachelor's degree in (Hons) Chemistry

Department of Chemistry, Aligarh Muslim University [01/08/2018 – 21/07/2021]

City: Aligarh | Country: India | Final grade: 7.5/10 CGPA | Level in EQF: EQF level 6

PUBLICATIONS

[2025]

A comprehensive examination of MXene-supported heterojunction materials: fabrication, structure design, and potential mechanistic pathways for generating photocatalytic H₂O₂ (under review)

LANGUAGE SKILLS

Mother tongue(s): Hindi

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

RESEARCH EXPERIENCE

[12/2024 – 05/2025]

M.Tech Research Thesis at Interdisciplinary Nanotechnology Department, AMU

M.Tech Research project on "**Synthesis, Characterization of Activated and Non-activated Porous Carbon, and their Application in Dye Adsorption**" under the supervision of Prof. Absar Ahmad at AMU.

[09/2024 – 11/2024]

Research Intern at Interdisciplinary Nanotechnology Department, AMU

M.Tech first year minor project on "**Sol-gel Mediated Cerium Oxide Nanoparticles Synthesis, Characterization and their role in Dye Degradation**".

[02/2023 – 08/2023]

Master's research thesis at department of Chemistry, AMU

I completed my master's research thesis on "**Synthesis, Characterization and Application of the Magnesium Oxide - Chitosan Composite Material for Remediation of Cadmium Ions from Aqueous System**" under the supervision of Dr. Mohd Kashif at AMU.

SKILLS

LAB SKILLS :

• UV-Spectrophotometry • DSC • XRD • Contact Angle Measurement • Thin layer chromatography • HPLC • Nanoparticles synthesis by physical, chemical and biological methods • FTIR • SEM • Electrospinning

SCIENTIFIC WRITING : • Research paper writing • Lab reports

ONLINE COURSES

[01/2025 – 04/2025]

Online course on "**Synthesis of Biodegradable Polymer by Electrospinning Method**" by IIT Kharagpur on NPTEL.

[01/2025 – 04/2025]

Online course on "**Introduction to Polymer Chemistry and their application in Biomedical field**" by IIT Roorkee on NPTEL.

ACHIEVEMENTS & AWARDS

Participated in the webinar entitled 'kinetic approach to model biological processes' organised by the department of chemistry, school of basic and applied sciences, Adamas University on 23rd March 2022.

Participated in Lecture III: Powering the Planet using Electrochemistry by Dr Mark D. Symes FRSC, School of Glasgow, UK, on 28th Feb, 2022 organized by Kirori Mal College, department of Chemistry, University of Delhi,

'Non-Metallic Luminescent Quantum Dots: Do they have the potential to replace Metallic quantum dots' organized by the Department of Chemistry, School of Basic and Applied Sciences. Adamas University on 12th February 2022.

Participated in the webinar on "SCIENCE ROOT", organised by Department of Biotechnology & Microbiology Rungta College of Science & Technology Durg from 21st February-28th February 2022.