

**AMMARAH IRSHAD**  
**MPhil (Organic Chemistry)**

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### **Personal Profile**

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Lecturer (BPS-18)

Department of Chemistry, Baba Guru Nanak University, Nankana Sahib, Pakistan

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### **Biography**

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I am serving as a Lecturer in Chemistry (BPS-18) at Baba Guru Nanak University, Nankana Sahib, with an MPhil in Organic Chemistry from GC University Faisalabad. With a strong academic foundation and a passion for teaching, I demonstrate expertise in delivering high-quality instruction in Chemistry, supported by proficient curriculum development, outcome based learning, and comprehensive laboratory training. My research focuses on the analysis of carcinogenic compounds in food and environmental samples, organic synthesis, and the development of chemical sensors. I am dedicated to cultivating critical thinking, scientific inquiry, and a research-oriented mindset among students, while continuously striving for excellence in both teaching and professional development.

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### **Qualification**

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- MPhil (Organic) Chemistry, GC University Faisalabad, (2017-2019).
- BS (Hons) Chemistry, GC University Faisalabad, (2013-2017)

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### **Professional Education**

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- B.Ed (1.5 Year), Allama Iqbal Open University, Islamabad, (2017-2019)

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### **Work Experience**

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- Member of **BGNU Chemist Society**, Department of Chemistry, Baba Guru Nanak University, Nankana Sahib (April 2025-To Date)
- Working as **Coordinator Students Affairs (CSA)**, Department of Chemistry, Baba Guru Nanak University, Nankana Sahib (October 2024-To Date)
- Member of **Program Team (QEC)**, Department of Chemistry, Baba Guru Nanak University, Nankana Sahib (August 2024-To Date)
- Member/Secretary of **Departmental Examination Committee**, Department of Chemistry, Baba Guru Nanak University, Nankana Sahib (August 2024-To Date)
- **Lecturer** Chemistry (BPS-18), Department of Chemistry, Baba Guru Nanak University, Nankana Sahib, (July 2024- To date)
- Lecturer Chemistry (Visiting), Department of Chemistry, Baba Guru Nanak University, Nankana Sahib, (November 2022- July 2024)
- Lecturer Chemistry (Contract) Govt Degree College (W) Bucheki, Nankana Sahib, (2018-2020)
- Lecturer Chemistry (Contract) Govt Degree College (W) Warburton, Nankana Sahib, (2017-2018)

## Honors and Awards

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- Received **Certificate of Appreciation** as an **Organizer** in Analytical Precision: Chromatographic Approaches for Quality Assurance, Baba Guru Nanak University, Nankana Sahib, (2025)
- Received **Certificate of Completion** for the National Outreach Program for Higher Education Faculty (NAHE-HEC), Baba Guru Nanak University, Nankana Sahib (May,2025)
- Received **Certificate of Appreciation** as an **Organizer** in towards Greener Tomorrow: EMS & FSMS as Pillars of Responsible Consumptions for Sustainable Future , Baba Guru Nanak University, Nankana Sahib, (2025)
- Received **Certificate of Appreciation** as an **Organizer** in Breast Cancer Awareness Seminar, Baba Guru Nanak University, Nankana Sahib, (2024)
- Received **Certificate of Appreciation** as an **Organizer** in ICAST 2024, Baba Guru Nanak University, Nankana Sahib, (2024)
- Received **Certificate of Appreciation** as an **Oral Speaker** in ICAST 2024, Baba Guru Nanak University, Nankana Sahib, (2024)
- Received **Certificate of Appreciation** as **Event Coordinator** working as lecturer of Chemistry in Govt Degree College (W)Bucheki, Nankana Sahib, (2018)

## Academic Achievements

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- Received **Certificate of Appreciation** in BS Chemistry for best performance and securing position.
- Certification in MS Office

## Submitted Projects

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- Development of an Ionic Liquid Enhanced Conducting Polymer Electrochemical Sensor for Carcinogens Detection

## Research Work

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- **Determination of Anthracene, Fluorene, Fluoranthene, Phenanthrene, Pyrene in Microwave oven cooked organs of Australorp chicken.**  
Carcinogenic Polycyclic Aromatic Hydrocarbons were identified in Microwave Oven Cooked organs of Australorp chicken variety by using chromatographic techniques.

## Teaching Interest

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- Organic Chemistry, Advanced Organic Synthesis, Reaction Mechanisms, Functional Group Transformations, Spectroscopic Analysis of Organic Compounds, Laboratory Techniques in Organic Chemistry, and Research-Oriented Practical Training.

## Research Interest

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- Carcinogenic PAHs Analysis, Chemical Sensor Development for carcinogenic compounds detection, Organic Synthesis and Novel Compound Design, Nanotechnology and Functional Materials, Energy and Advanced Battery Technologies.

## Professional Presentations

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- Oral Presentation as an **Oral Speaker**: “**Evaluation of Carcinogenic PAHs such as Fluoranthene in Cooked Chicken Organs**”, 2<sup>nd</sup> International Conference on Applied Sciences and Technology, **Baba Guru Nanak University, Nankana Sahib**, October, 15-17, **2025**.
- Oral Presentation as an **Oral Speaker**: “**Determination of Carcinogenic Polycyclic Aromatic Hydrocarbons in cooked chicken variety**”, 1<sup>st</sup> International Conference on Applied Sciences and Technology, **Baba Guru Nanak University, Nankana Sahib**, November, 24-25, **2024**.

## Professional and Technical skills

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- Collaboration and team work
- Time Management
- Research, Analysis and Project Management
- MS Word, MS PowerPoint, MS Excel
- Classroom organization and Management
- Expert in Chem Draw
- Excellent communication skills

## Languages

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- English
- Urdu