



**Dr. Munazza Maqbool (PhD Chemistry)**

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

**Bio**

Dr. Munazza Maqbool is a PhD in Chemistry specializing in environmental chemistry, bioenergy, and sustainable materials. Her research focuses on microalgae-based wastewater treatment, biodiesel production, and advanced adsorption technologies. She has published extensively in internationally recognized journals and contributed to curriculum development aligned with HEC guidelines. Currently, she is serving as Assistant Professor (Visiting) at Baba Guru Nanak University.

**Education**

**PhD Chemistry**

University of Agriculture, Faisalabad (2016–2022)

Research: Microalgae for biodiesel & wastewater treatment

**MPhil Chemistry**

University of Agriculture, Faisalabad (2014–2016)

Research: Natural dyes in textiles & cosmetics

**B.Ed. (Science)**

Allama Iqbal Open University (2015–2016)

**BS (Hons.) Chemistry**

Govt. College University Faisalabad (2010–2014)

**Work Experience**

**Assistant Professor (Visiting)**

Baba Guru Nanak University (17.03.2026 – Present)

**Assistant Professor (IPFP Fellow)**

Baba Guru Nanak University (17.03.2025 – 16.03.2026)

**CTI – Lecturer**

Govt. Postgraduate College Samanabad (04.10.2014 – 18.05.2015)

**Teaching Assistant**

University of Agriculture Faisalabad (03.08.2017 – 05.01.2018)

### **Research Metrics**

- Total Publications: 8+
- Cumulative Impact Factor: ~30+ (approx.)

### **Publications**

Maqbool, M., Bhatti, H. N., Sadaf, S., AL-Anazy, M. M., & Iqbal, M. (2020). Biocomposite of polyaniline and sodium alginate with *Oscillatoria* biomass: A potential adsorbent for dye removal. *Journal of Materials Research and Technology*, 9(6), 14729–14741.

Maqbool, M., Sadaf, S., Bhatti, H. N., Rehmat, S., Kausar, A., Alissa, S. A., & Iqbal, M. (2021). Sodium alginate and polypyrrole composites for Congo red adsorption. *Surfaces and Interfaces*, 25, 101183.

Mustafa, S., Bhatti, H. N., Maqbool, M., Khan, A., Alraih, A. M., & Iqbal, M. (2024). Renewable composites for herbicide removal. *Sustainable Chemistry and Pharmacy*, 39, 101577.

Mustafa, S., Bhatti, H. N., Maqbool, M., & Iqbal, M. (2021). Microalgae biosorption and wastewater remediation. *Journal of Water Process Engineering*, 41, 102009.

Ghani, N., Shahzadi, N., Sadaf, S., Ullah, I., Ali, E., Iqbal, J., & Maqbool, M. (2020). Indigenous microalgae isolation. *Iranian Journal of Biotechnology*, 18(3), e2214.

Maqbool, M., Ali, S., Hussain, M. T., Khan, A., & Majeed, S. (2021). Natural dyeing of cotton fabric. *Journal of Natural Fibers*, 18(1), 42–50.

Ali, S., Maqbool, M., & Hussain, M. T. (2020). Natural dyeing of human hair. *Journal of Natural Fibers*.

Maqbool, M., Bhatti, H. N., Sadaf, S., Zahid, M., & Shahid, M. (2019). Green synthesis of polyaniline biocomposite. *Materials Research Express*, 6(5), 055308.

### **Projects & Research Work**

- PhD: Microalgae-based biodiesel production & wastewater treatment
- MPhil: Natural dyes for textile applications
- Submitted Project (PINTECH 2026):

- Circular microalgae-based wastewater treatment and biomass-derived Biocomposite adsorbent for sustainable water purification

### **Academic & Administrative Responsibilities (IPFP Tenure)**

- Focal Person for student educational trips
- Chemistry Laboratory Incharge
- Acting Incharge, Department of Chemistry
- Member, Board of Studies (PhD curriculum development)
- Coordinator, BGNU Chemist Society
- Departmental Event Coordinator
- Media Coordinator
- Student mentoring and academic advising
- CLOs and course documentation preparation
- Timetable and workload management
- Examination duties and committee membership

### **Conferences, Seminars & Academic Events**

#### **Organized**

- International Symposium on Earth Day (2025)
- National Conference on Mathematics & Sustainability (2025)
- Seminar on Analytical Precision (2025)
- HEC & British Council STEM Training (2025)
- Focal Person: ICAST-2025

#### **Participated**

- Symposium on Biodiversity & Conservation (2025)
- Earth Day Exhibition (2025)
- STEM Faculty Training (2025)

### **Teaching Interests**

- Environmental Chemistry
- Analytical Chemistry
- Physical Chemistry
- Industrial Chemistry
- Green Chemistry

### **Research Interests**

- Bioenergy & Biofuels
- Microalgae Biotechnology
- Wastewater Treatment
- Adsorption Technology
- Environmental Remediation

### **Awards & Honors**

- IRSIP International Research Grant (HEC Pakistan)
- Academic and debating awards

### **References**

Prof. Dr. Haq Nawaz Bhatti (UAF)

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Dr. Javed Iqbal (UAF)

Email: Javedkhattak78@gmail.com | +92-316-0693230