

Dr. Ghafoor Unnisa

Assistant Professor(c)/Guest faculty, Department of Botany

Centre for Distance and Online Education-

Maulana Azad National Urdu University, Hyderabad, India

EDUCATION

Ph.D. (Botany) - Maulana Azad National Urdu University

M.Sc. (Botany) - Anwarul Uloom College, Osmania University

M.A. (English) - Maulana Azad National Urdu University

B.Ed. - Anwarul Uloom College, Osmania University

B.Sc. - Anwarul Uloom College, Osmania University

Diploma in Career Counseling - JIVA, The Promise Foundation (2009)

ACADEMIC POSITIONS

- Assistant Prof (c/Guest faculty, Department of Botany-CDOE-MANUU (Present)
- Botany Faculty (Part-time) - Sultanul Uloom Junior College (2020)
- High School Teacher (Biological Science) - (1999-2018)

ACADEMIC & COMMUNITY ENGAGEMENT

- Associated with Telangana Science Fair Academy, Hyderabad (2010–Present)
- Coordinate statewide science education and outreach programs.
- Manage administration, finance, and organization of regional science fairs.
- Conduct workshops and seminars to promote STEM education and research skills.
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AWARDS & HONOURS

- Science Seva Ratna Award - Gandhi Global Family (Feb 28, 2021)
- Best Teacher Award - Rotary Club (Sep 5, 2016)
- Meritorious Teacher Award - All India Muslim Educational Society (Sep 14, 2015)

PUBLICATIONS & LEARNING MATERIALS

Book Chapters

- Authored Self-Learning Material (SLM) units for MANUU Distance Education:
 - *Biodiversity (Microbes, Algae, Fungi and Archegoniate)* – Unit 11 (Semester I)

- *Plant Ecology and Taxonomy* – Units 9–11 (Semester III); Units 2 & 12 (Semester V); Units 3 & 4 (Semester VI)
 - *Nursery and Gardening* – Units 3 & 4 (Urdu Translation)
- *Integration of Plant Hormones in the Biological System as an Opportunity for Sustainable Crop Production*. Springer Publications, Aug 2024.

Research Papers

1. Role of silver nanoparticles in countering PEG-induced drought stress in Pearl millet (*Pennisetum glaucum* R.Br.) – Indian J. Applied & Pure Bio., 40(1): 702–708 (2025)
2. Effects of *Alternanthera sessilis* (L.) R.Br.ex DC. with/without silver nanoparticles on jowar (*Sorghum vulgare*) – Indian J. Applied & Pure Bio., 39(1): 562–568 (2024)
3. Allelopathic effects of *Cleome viscosa* L. on seed germination and seedling growth of Maize (*Zea mays* L.) – Indian J. Applied & Pure Bio., 38(3): 1010–1015 (2023)
4. Comparative study of *Celosia argentea* L. and Silver nanoparticles on Pearl millet (*Pennisetum glaucum* R.Br.) – Indian J. Applied & Pure Bio., 38(3): 1557–1562 (2023)
5. Secondary Metabolites and their Medicinal Uses – Indian J. Applied & Pure Bio., 39(1): 170–175 (2023)
6. Allelopathy: An Alternative to Synthetic Herbicides in Weed Management – Indian J. Applied & Pure Bio., 37(2): 459–463 (2022)
7. Allelopathy: A Multi-Dimensional Phenomenon – Third Concept: An International Journal of Ideas, Vol. 35(2): 419–421 (2021)
8. Several Urdu-language science communication articles in Science Urdu Magazine (2019–2021).

Books & Compilations

- *A Guide for Science Fair and Engineering Projects* by Dr. Azher Qazi, 2019
Compiled & Translated in Urdu.

SCIENCE COMMUNICATION & OUTREACH TALKS

Delivered numerous workshops and talks under the Telangana Science Fair Academy on scientific methodology, project-based learning, science literacy, and educational strategies for Urdu and English medium schools.

LANGUAGES

Urdu, English & Hindi