

PERSONAL INFORMATION



Syed Fazil Bin Farukh

📍 **Lecturer**

Central Hi-Tech Laboratory University of Agriculture Faisalabad, Pakistan

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Date of birth 08/10/1985 | Nationality Pakistani

EMPLOYMENT

08/2014–Present

Lecturer:

Central Hi-Tech Laboratory University of Agriculture Faisalabad, Pakistan

- Teach instrumentation courses and conducting practical demonstrations.
- Providing hands-on Training on laboratory equipment to researchers, faculty members and students across Pakistan.
- Serving as Quality Manager and focal person for ISO-17025 and ISO-9001: 2015.
- Operate and analyses the sample on Electron Microscope (SEM/TEM) Gas Chromatograph (GC) and other advance Instruments.
- Managing instrument repair and maintenance

08/2011–7/2014

Research Officer

Central Hi-Tech Laboratory University of Agriculture Faisalabad, Pakistan

- Led a team of technicians for instrument maintenance and repairs.
- ☐ Operated advanced equipment such as Gas Chromatographs and Scanning Electron Microscopes.

2010–2011

Lecturer (internee)

- Completed one-year internship from higher education commission (HEC) as a lecturer in govt. islamia college railway road Lahore. (Pakistan)

EDUCATION

- 2021–2024 **PhD (Physics) (3.85/4)**
UNIVERSITY OF AGRICULTURE FIASALABAD(Pakistan)
- Thesis: Investigation of electrochemical energy storage potential of selenium based composite materials
- 2008–2010 **M.S. (*ELECTRONICS ENGINEERING*)**, control system (3.5/4)
INTERNATIONAL ISLAMIC UNIVERSITY ISLAMABAD (IIUI), (Pakistan)
- Thesis:** Worked on “Industrial Applications of Fuzzy Time Controls Discrete Event System”. Under the supervision of Dr M. Saleem Khan (Director Computer & Electronics Department) G.C.University Lahore, Pakistan.
- 2005–2007 **MSc. Physics**
University of the Punjab (PU), Lahore (Pakistan)
- 2003–2005 **BSc. (Math- Physics)**
Islamia College Civil Lines, Lahore (Pakistan)

PROFESSIONAL TRAININGS

1. Scanning Electron Microscope (SEM),2015
2. X-Ray Diffractro-Meter (XRD), 2016
3. Gas Chromatograph (GC), 2016
4. Spectrophotometer, 2016
5. Professional Development of Teachers Teaching Through Medium of English, 2016
6. Transmission Electron Microscope (TEM), 2017
7. ISO-9001: 2015 **Lear Auditor** (IRCA/CQI approved), 2019
8. ISO 17025 from Pakistan National Accreditation Council (PNAC)
9. High Performance Liquid Chromatograph (HPLC),2019
10. One Year Laboratory Instruments Operational Training Including(HPLC, GC, SEM, TEM, Light Microscopy, Confocal Microscope and PCR etc.) from **Xinjiang Agriculture University, Urumqi China. 2017**
11. International workshop (Hands-On Training) on “Energy and Sensing Materials”2024
12. Training on E-Punjab Acquisition and Disposal System, 2024
13. GHG Emission in Rice System Basics of Mechanism and Standards for Measurement, Los Banos, **Philippine**, 2024
14. 2 days In-House ISO-17025 Training. 26-27, Dec 2024.

PUBLICATIONS

1. **Farukh, S. F. B.**, Javed, Y., Qadir, M. B., Jamil, Y., & Sarfraz, R. A. (2025). Optimization Of Zinc Doping In Nickel Selenide Nanorods For Efficient Hybrid Energy Storage Devices. *Inorganic Chemistry Communications*, 114108.
2. Atif M, Ullah A, Shad NA, Fatima J, **Farukh S.F.B**, Zahid U, Geng D, Javed Y. Oxygen vacancy-rich Ni (OH) 2-ZnWO4 composites as an effective electrocatalyst for water splitting. *Inorganic Chemistry Communications*. 2024 Dec 27;113826.
3. **Syed Fazil Bin Farukh**, M.Saleem khan, "Autonomous Air Conditioning System" *International Journal of Computer and Electrical Engineering*, Vol. 5, No. 5, October 2013
4. **Syed Fazil Bin Farukh**, M.Saleem khan, " A New Approach Of Syrup Manufacturing By Using Time Control Discrete Event System" *International Journal of Computer and Electrical Engineering*, Vol. 5, No. 2, April 2013
5. **Syed Fazil Bin Farukh**, M. Saleem khan, "A New Approach Of Syrup Manufacturing By Using Time Control Discrete Event System" *Yanbu Journal Of Engineering And Science (Yjes)*.
6. M. Abbas, M. Saleem khan, Nasir ali and **Syed Fazil**, " Fuzzy Logic Based Autonomous Traffic Control System"sensors &transducers journal, vol136,issue 1,January 2012,pp132-146

Books Chapter/Laboratory Manual Authored

1. Title "Laboratory Quality & Technical Manual" ISO-17025
2. Title "Standard Operational Procedures for Laboratory Quality/Technical Management"
3. Syed Fazil Bin Farrukh. 2019. **Basic Electronics in Instrumental Analysis**, Principles of Analytical Chemistry. Ch. Ahmad Najib, CaravanBook House, Lahore, Pakistan.
4. Syed Fazil Bin Farrukh. 2019. **Laboratory Quality Management**, Principles of Analytical Chemistry. Ch. Ahmad Najib, Caravan Book House, Lahore, Pakistan.
5. Laboratory Quality Manual & Standard Operational Procedures, ISO-9001; 2015

PROFESSIONAL SKILLS

Job-related skills Instrumentation

- capable to operate the electron Microscope(SEM/TEM), Gas Chromatograph (GC), High Performance Liquid Chromatograph (HPLC), UV-Vis. Spectrophotometer, Ultra Centrifuge, freeze dryer, X-ray Diffractometer (XRD) Atomic absorption spectroscopy (AAS) etc.

International organization for standardization (ISO)

IRCA/CQI approved international Lead Auditor for ISO-9001: 2015, Quality Manager/focal person for ISO -9001:2015.

CONFERENCES/SEMINARS

1. Workshop on Science- Teaching and Methodologies.
2. International conference on intelligence and information technology
3. Work shop on vacuum technology as **Resource Person**
4. Workshop on Advanced Chemical techniques in Natural and Applied Sciences as **Resource Person**
5. Participate as a member of workshop **organizer** committee in Training on crystal structure Determination by X-Ray Crystallography.
6. Participated in professional Training on “Professional Development of Teachers teaching through medium of English”.
7. International Conference Opportunities and Challenges in Dairy Industry, UAF
8. International Workshop on Renewable Energy Technologies for Community Development, UAF, 2016
9. 5th International Multidisciplinary Conference, Lahore Attended Through Paper Presentation, 2016
10. In-House ISO-17025 Training, **Resource Person** ,2016
11. Hand on Training Program 2018, **Resource Person**, 2018
12. In-House ISO-9001; 2015 Training, **Resource Person**, 2019
13. Slow Pace of Agricultural Biotechnology Adaptability, 2019
14. International Workshop on Bioinformatics and Biotechnology, **Resource Person**, 2019
15. International Lead Auditor Training Course on ISO-9001, Sep, 2019
16. International Training Workshop on Biotechnology, Bioinformatics & Biochemistry, April 2019, **Resource Person**
17. Workshop on “Teachers Capacity Building and Professional Development, 2021.
18. Capacity Building and Professional Development workshop (SWOT ‘Analysis, Strategic and Succession Planning). 2021
19. “Discovering the innovative progressions in catalysis” 20th December 2021
20. Series of Hands-On Training on “Advance Analytical Techniques for Highly Sophisticated Instruments” January 31 to February 28, 2022. **Resource Person**

21. Workshop on Teachers Training, July 2022. **Resource Persons**
22. **Hands-On** Training on Dynamic Light Scattering (DLS), organized by Agilent, Lahore. 2023
23. Series of “Customized Hands-On Training Program-2023” **Resource Person**
24. International workshop (Hands-On Training) on “Energy and Sensing Materials”2024
25. Training Workshop for UAF Laboratory Staff Capacity Building, **Resource Person**, 2024.
26. Training on E-Punjab Acquisition and Disposal System, 2024

LANGUAGES

URDU (Native language)

English (Average proficiency)

Chinese (Basic Level, HSK-3)