

# Engr. Fareeha Younus

Permanent: 69, St:3-E, DHA-II, Islamabad, Pakistan  
fareeha.younus@iiu.edu.pk, +92 3008102474

## Qualifications

<b>2015 – 2018</b>	<b>MS Electronics Engineering</b> International Islamic University, Islamabad, Pakistan Overall Grades (3.95 CGPa) <b>Research Thesis-</b> Capacitance-Voltage Process Metrology of Engineered ZnTe-CdTe Solar Cells
<b>2007 – 2008</b>	<b>MS Electrical Engineering</b> University of Engineering and Technology, Lahore, Pakistan Overall Grades (79.9% ) Research Thesis- Design and Analysis of Software based PBX
<b>1997 – 2001</b>	<b>BSc Electrical Engineering</b> University of Engineering and Technology, Lahore, Pakistan Overall Grades (79.84%) <b>Research Thesis-</b> PLC Based Scada Systems

## Teaching Experience

2014-Current	<b>Assistant Professor</b> Courses: Microelectronic Technology (EE424), VLSI (EE408), Electronic Circuit Design (EE203), Instrumentation and Measurements (EE305) Department of Electrical Engineering International Islamic University, Islamabad, Pakistan
2009- 2013	<b>Lecturer</b> Courses: Engineering Physics (BS100), Circuit Analysis (EE101), Basic Mechanical Engineering (ME111), Differential Equations (BS111), Digital Logic Design (EE201) Department of Electrical Engineering International Islamic University, Islamabad, Pakistan

## Research Interests

Photovoltaics	I-V Analysis	Design and Modelling
Optoelectronic Devices	Material Characterisation	Failure mode analysis
Composite modelling	Optical Analysis	Ion-Implant Modelling
C-V Analysis	Organic Electronics	Nanomaterials

## Refereed Journal Articles

- Ali, M., Ahmed, S., **Younus, F.** and Ali, Z., 2020. Electrical, charge transients and photo response study of as-deposited and phosphorus implanted Cd<sub>1-x</sub>Zn<sub>x</sub>Te devices for PV applications. *Radiation Physics and Chemistry*, 166, p.108498.

## Industrial Experience

Apr 2005– Dec 2007    *Operation and Maintenance Engineer*

## **Pakistan Telecommunication Company Limited, Pakistan**

### **Key Responsibilities**

- Operations & Maintenance of ALCATEL switch and M-800 Huawei switch(VLR & HLR) .
- Part of the team responsible for launching V-Fone (PTCL's WLL service) in Lahore, Faisalabad, Gujranwala and other associated cities.
- Creation of Code Points, Trunk Groups, Trunks, Routing, and C7 links, Alarm monitoring and rectification of faults.
- Organized and directed maintenance shutdowns and startups.
- Reviewed technical documentation to complete equipment maintenance and repair.
- Worked frequently with inspection systems to complete knowledgeable inspections and skilled repairs.
- Investigated and corrected mechanical problems with machinery such as Generators and Batteries.
- Implemented preventive maintenance practices and upheld equipment guidelines to reduce downtime.
- Project scheduling and budgeting.

### ***Research Skills and Abilities***

---

- Designing and Modelling of thin films using SRIM modelling tool.
- I-V and C-V analysis for PV application.
- Modelling annealing routines for semiconductors.
- Familiar with laboratory clean room requirement and handling of equipment and tools for sophisticated measurements and micro and nano scales.
- Characterisation of materials (Hall effect and ASMEC)

### ***Professional memberships***

---

- Pakistan Engineering Council (Professional Engineer) Membership ID : Elect/18850