

AYESHA ABBASI

Permanent Address:

H. No. 215-B, St. No. 49 F-10/4, Islamabad
Phone (Res.) 051-2106887 Mob: 0336-8362692
E-mail : Ayesha.abbasi@mail.au.edu.pk

Education:

- **PhD in Electronics Engineering**, In progress, Major: Power and Controls, International Islamic University, IIU, Islamabad
- **Masters in Electrical Engineering**, Major: Digital Signal Processing ,School of Electrical Engineering and Computer Sciences (SECS) – NUST (2013), Islamabad
- **BE:** Electrical Engineering with Majors in Electronics from Air University (2004-2008), Islamabad.
- **H.S.S.C:** Pre-Engineering (2002-2004) Islamabad College for Girls F-6/2, Islamabad.
- **S.S.C:** Science (2000-2002) Islamabad College for Girls F-6/2, Islamabad.

Experience/Trainings/Internships:

From – Till	Institution	City	Designation	Department
1. 02/2018 – Working	IIUI	Islamabad	Lecturer	Electrical Engineering
• Teaching courses of <i>Power Electronics, Control Systems, Electric Circuit Analysis I&II</i>				
2. 08/2013 – 01/2018	Air University	Islamabad	Lecturer	Electrical Engineering
• Taught courses of <i>Power Electronics II, Power Electronics I, Power Generation Systems, Electrical Machines, Circuits Analysis</i>				
3. 08/2008 – 07/2013	Air University	Islamabad	Lab Engineer	Electrical Engineering
• Designed and conducted labs of <i>Power Electronics I, Power Electronics II, Electrical Machines, Control Systems, Electromagnetic Waves and Digital Electronics</i>				
• Supervised and Co-supervised Final year project related to power electronics like <i>Grid Tie Inverter with Islanding, Efficient Power System</i> and <i>Three Phase Power Protection System using Microcontrollers and etc.</i>				
• Designed and prepared Lab manuals of <i>Power Electronics I, Power Electronics II, Electrical Machines, Control Systems and Electromagnetic waves</i>				
4. 07/2016 – 09/2016	HEC	Islamabad, Peshawar, Lahore	Trainee	28 th Masters Trainers Program
• Attended one and a half month training program on various modules as scheduled by <i>Higher Education Commission</i> ; microteaching, curriculum development, assessment and evaluation, ICT and e-learning and etc.				
5. 06/2014 – 06/2014	USAID	Islamabad	Trainee	Energy Policy Program Department
• Attended two weeks <i>Energy Policy Program training</i> conducted by USAID on <i>Best Practices for thermal operations and maintenance</i>				
6. 07/2007 – 09/2007	ALI Powers	Islamabad	Internee	Project Department
• Implemented a <i>Fail Safe Power System</i> that was based on <i>UPS (Uninterruptable Power System)</i> designing and ensured the continuation of ongoing system without any interruption				

Publication:

Ayesha Abbasi, Dr. Ijaz Mansoor Qureshi, Dr Hassan Abdullah, “**An Overview of control strategies with emphasis on demand response for stability and reliability enhancement of Microgrids**” 4th International conference on Power Generation Systems and Renewable Energy Technologies (PGSRET), 2018

Dr. Fida Muhammad khan, Ayesha Abbasi, Muhammad Azam, Imran khan, “**General Overview of Using High Voltage Direct Current (HVDC) Transmission in Pakistan for Maximum Efficiency and Performance**” 2nd International conference on Power Generation Systems and Renewable Energy Technologies (PGSRET), 2015

Workshops and Courses Attended:

- A three day short course on **Instrumentation and Controls**, 9th to 11th April, 2018, University of Engineering and Technology Lahore (UET), Lahore
- National ICT R&D Workshop On "**Communication Science & Systems**" (Part - II) 25-29 December, 2016, Lahore Pakistan
- 2nd National Workshop on **Power Electronics with Renewable Integration**, 8th to 9th October, 2016, Islamabad, Pakistan
- One Day International workshop on **Outcome based Education and Implementation**, 4TH May, 2017, Islamabad, Pakistan

PhD Research Work Title:

- **Demand response based energy system for reliability and stability enhancement of Microgrids**

Major Courses:

- **Linear systems theory, Advanced semiconductor devices, Non linear control systems theory, Heuristic computation techniques, Fuzzy controls**

Technical Skills:

- **Languages:** C++ with OOP, Assembly, VeriLog HDL, Ladder Logic
- **Tools:** MATLAB, LabVIEW, Orcad, AutoCAD, XILINX, Electronic Workbench, AVR Studio, Model Sim, Keil μ Vision, , RSLogix500, PSpice, Circuit maker, Express PCB, MS Office
- **Operating Systems:** Linux, Win XP, Win 2000, Win 98

Awards & Achievements:

- Won 1st prize for a final year student project under supervision with title as **Grid Tie Inverter with Islanding** in open house 2017
- Performed best in 28th Masters trainers program and file photo was published in the newspaper
- Awarded scholarship for getting SGPA greater than 3.5 in various semesters during BSEE.
- Awarded Dean’s Honor List for maintaining excellent CGPA

Co-Curricular Activities:

- Designed Outcome based education course outlines in Air University for courses related to Power Engineering
- Organized Student project exhibition 2012 in Air University
- Vice President of AU Islamic Society
- Actively participated in gaming teams of Islamabad College for Girls F-6/2

Areas of Interest:

- Microgrids, Power Electronics
- Circuit Designing