MUHAMMAD YASIR NOOR

LECTURER
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Professional Summary

With over 20 years of experience as a teacher and researcher in Electronics, I am dedicated to driving innovation in designing electronic devices and developing intelligent electronic control systems. I bring extensive expertise in advanced instrumentation, fuzzy logic control, and energy-efficient system design, contributing to both academic research and practical technological advancements. Known for strong analytical skills, a commitment to high-quality teaching, and a passion for creating next-generation intelligent electronic solutions.

Research Interests

- Advanced Instrumentation and Intelligent Control Systems
- Non-Destructive Testing (NDT)
- Fuzzy Control Systems
- Energy Storage Devices

Publications

Journals

- Salah-ud-din Khokhar, Akif Nadeem, Syed Arslan Abbas Rizvi, Muhammad Yasir Noor, "Applying A Higher Number of Output Membership Function to Enhance the precision of a Fuzzy Systems, IEEE Transactions on Emerging Topics in Computational Intelligence, 2025.
- Salah-ud-din Khokhar, QinKe Peng, and **Muhammad Yasir Noor, "**Linearization of Single-input Single-output Fuzzy System to Improve Accuracy and Performance" CMC-Computers, Materials & Continua. 2023.
- Salah-ud-din Khokhar, QinKe Peng, and **Muhammad Yasir Noor,** "2 in 1 Humidifier + Air Purifier Fuzzy Control System" Journal of Uncertain System, 2022.
- Abdul Sami, Ali Asif, Muhammad Imran, Farah Aziz and **Muhammad Yasir Noor,** "Artificial Neural Networks and Dataset Optimization for Implementation of Linear System Models in Resource-Constrained Embedded Systems" Expert Systems, 2022.
- Salah-ud-din Khokhar, QinKe Peng, Ali Asif, **Muhammad Yasir Noor,** and Aaqib Inam, "A Simple Tuning Algorithm of Augmented Fuzzy Membership Functions", IEEE Access, 2020.

Conference

- Salah-ud-din Khokhar, QinKe Peng, Ali Asif, **Yasir Noor,** Umair Khokhar and Nabeel Abid, "Low Cost and Energy Efficient Fuzzy Based Kitchen Ventilation Control System", International Conference on Robotics and Automation in Industry (ICRAI), 2019.

Academic Positions

- 2006- to date : Lecturer — Government College University Lahore
  Department of Physics (2006-2022)
  Department of Electronics (2022 onwards)
- 2004-2006 : Lecturer — Forman Christian College Lahore.
- 2002-2004 : Lecturer — NICON College of Computer Sciences

Visiting Faculty Member

- 2008- 2015 : Lecturer (Visiting Faculty) Department of Computer Science
  GC University Lahore in BSCS Program.

Education

2018 Ph.D.- continue (Final stages)
Title: Synthesis and characterization of hybrid composite based on manganese oxide for energy storage applications.

2006 M.Phil. (Physics, Specialization in Electronics) GCU Lahore.
2002 M.Sc. (Physics, Specialization in Electronics) GCU Lahore

Professional Training

PLC (Programable Logic Controller) from **PITAC** Lahore.

Courses Taught

Post Graduate Level:

- Embedded System Design

Under Graduate Level:

- Circuit theory,
- Analog and Digital Electronics,
- Basic Electronics
- Digital logic Design
- Transducers and Instrumentation,
- Microwave Electronics,
- Wireless Communication,

- Electronic Communication.
- VHDL
- Solid State Electronics
- Computer Architecture
- Assembly Language

Thesis/ Dissertation Supervision

M.Phil. Thesis - Co-Supervisor

- Mahnoor Maqsood, "Estimation of Ferromagnetic Material Sheet Thickness using Directly-interfaced Inductive Sensor"
- Atasam Imtiaz, "Investigation of Data Connectivity issues during VoLTE Voice Call"

BS Final Year Projects Supervision (more than 60 students)

- Radio Frequency Scanning Techniques.
- Edge AI Integration in Resource- Constrained Embedded Systems.
- An Edge Computing based Deep learning Framework for Virtual Try-on Application.
- Review of Synthesis Techniques of Materials for energy Storage Devices.
- Piezoelectric based energy harvesting system.
- Leakage Current Detection using Thermal Imaging.
- FPGA based control application 24-hour digital clock.
- FPGA based control application scanned keyboard and multiplexed display.
- GSM based home automation.
- GSM based security system using RFID
- Wireless supervisory control of robotic arm using live video streaming.
- Automatic IC testing Systems with computer interface
- I-V curve tracer with computer interface
- Solar tracking system using microcontrollers.
- Fingerprint based attendance system using microcontrollers.
- Color based sorting machine.
- Ultrasonic blind walking stick.
- Motor control system for vending machine.
- Modelling and analysis of flexible AC transmission system.
- Monitoring of power distribution system.
- RF controlled combat vehicle.
- Mechanical Robotic arm.
- Arduino based stepper motor control system.
- Arduino Based serial MP3 player.

Hardware proficiency

- Analog and digital Systems.
- Microcontrollers.
- Embedded System kits
- Programmable logic controller (PLC)

CAD Software Skills

- Electronics Workbench
- LTSPICE
- Proteus
- VHDL

Administrative Experience

- In charge Electronics program B.Sc. (Hons.) 2008-12.
- Coordinator of B.Sc. Evening Electronics program.
- Member in PEEDAA inquiry committee deputed by Competent Authority.
- Sector Proctor In charge in CASP.
- Member purchase of Audio sound system for Salam Hall and meeting rooms.
- Member in security system committee to purchase cameras.
- Member Technical committee to purchase electronic library security system.
- Member in Rovers club Admission committee.
- In charge student affairs in Electronics Program.
- Member symposiums and Physics Conferences.
- Presiding officer in general election 2018.
- In charge B.Sc. electronics labs. 2008-12.
- Member Department stock taking committee. 2008.
- In charge student affairs in B.Sc. (Hons.) Electronics program.
- Member sound system committee in convocations.
- Member and proctor in GCU Convocations.