



Bilal Aziz

Lecturer

Department of Electronics Technology

Bilal.aziz@uotnowshera.edu.pk

EDUCATION

M.S. Electrical Engineering, March 2016
SEECs, NUST, Pakistan.

B.S. Telecommunication Engineering, June 2012
UET Peshawar, Pakistan.

AWARDS AND ACHIEVEMENTS

- Certificate of Appreciation from UET Peshawar, 2012.
- Merit-Base scholarship from UET Peshawar, 2008–2009.
- Officially represented NUST and UET Peshawar on many different Forums and National level Competitions.

TEACHING INTERESTS

Advance Digital and Communication Electronics, Electronic Devices, Optical Communication System, Optical Signal Processing, Discrete Signal and Processing, Data Communication and Networks, Digital Logic and Design.

RESEARCH INTERESTS

Ultra-wide Band over Fiber (UWBoF) System, Base-Band over Fiber (BoF) System, Optical Communication Systems, Data communication and networks, Network Simulators.

EXPERIENCE

Lecturer, Department of Electronics Technology, Aug 2016 – Present
University of Technology Nowshera, KPK, Pakistan.

Research and Development Associate, Samar Mubarakmand Research Institute of Microwave and Millimeter wave Studies (RIMMS), 2014-2015
SEECs, NUST.

Support Engineer, Network Technology Department, 2015
Huawie, Pakistan.

SOFTWARE SKILLS

- Opti-Sim
- Opti-System
- Matlab
- Electronics Work Bench
- Verilog
- OPNET
- Wireshark
- NS-2
- AutoCAD

RESEARCH PROJETS

- Cost-efficient mm-wave Ultra Wide Band signal Transmission to Multiple Radio access units using all Optical techniques.
- Comparative Study of Network Simulators.

RESEARCH PUBLICATIONS

1. **Bilal Aziz**, Tayyab Mehmood, Salman Ghafoor, "UWB over Fiber Transmission to Multiple Radio Access Units using All-Optical Signal Processing", Springer Photonic Network Communications, pp 1-8 , 2017. <https://link.springer.com/article/10.1007/s11107-017-0695-y>
 2. S.Khan, **Bilal Aziz**, S.Najeeb, A.Ahmed, M.Usman, and S.Ullah "Reliability of network simulators and simulation based research", 24th IEEE International Symposium on Personal Indoor and Mobile Radio Communications (PIMRC), London, UK, 2013, pp 180—185. <http://ieeexplore.ieee.org/document/6666127/>
 3. **Signal to Noise Ratio (SNR) Estimation for Non-Coherent BFSK Receiver** (under-review).
 4. **Comparative Study of Network Simulators (NS-2 and OPNET Modeler) with Testbed** (under-review).
 5. **Cross-layer Survey of Multipath Techniques in networking** (under-review).
-