# SALEHA BANO

Email: saleha@neduet.edu.pk

## CAREER OBJECTIVE

To secure a challenging and responsible position in order to enhance my skills, knowledge, capabilities and innovative ideas by working in a dynamic organization that prides itself by giving substantial responsibilities to one individual.

## WORK EXPERIENCE

Serving as a lecturer at NED University of Engineering & Technology from **April 2010 to date**

### Courses Taught

- Analog Integrated Circuit
- Basic Electronics
- Electronics-II
- Opto Electronics and Microwave Systems
- Introduction to Biomedical Engineering
- Electronics Engineering Drawing & Workshop

### Responsibilities

- Designed and conducted Practical's of Basic Electronics, Analog Integrated circuits, Opto Electronics & Microwave systems, Amplifier and Oscillator, Solid State Devices (SSD), Electronics Engineering Drawing & Workshop, and Power Electronics
- Performed administrative duty in Amplifier and Oscillator lab, as well as General Purpose lab as In-charge
- Worked as a Faculty Head of a Job fair named 'Career Expo', this job fair is aimed at showcasing the final year projects where potential employers are invited and a platform is provided to interact with the students regarding their final year projects and career goals (2012 to 2014)
- Arranged several workshops, seminars, trainings on various topics regarding Electronics Engineering field
- Managed to prepare presentation and to make different arrangements for the 'Open Day' held in NED University for the newly admitted students
- Attended workshops on presentation and communication skill, effective teaching practices and Research methodology.
- Supervised various Final year projects to the Final year students.

## ACADEMIC QUALIFICATION

**PhD in Electronics Engineering (In Progress) [Course Work CGPA: 3.7]**
Design, Analysis & Characterization of Continuous Time Filter using Current Mode Active Elements
NED University of Engineering and Technology, Karachi, Pakistan

**Masters of Engineering in Electronics (Aug 2010 – Dec 2011) [CGPA: 3.76]**
NED University of Engineering and Technology, Karachi, Pakistan
Major: Specialization in Micro system Design (MSD)
Thesis: General Bi-quadratic Active RC Filter Circuit Using Negative Impedance Converter

**Bachelor of Engineering in Electronics (Jan 2006 – Dec 2009)**
NED University of Engineering and Technology Karachi
FYP: Micro-controller based spectrophotometer using Compact Disc as diffraction grid

## RESEARCH PUBLICATIONS

### Journal Publications:

- Saleha Bano, Ghous Bakhsh Narejo and Syed Muhammad Usman Ali Shah, 'Power Efficient Fully Differential Bulk Driven OTA for Portable Biomedical Application', Electronics, MDPI, Vol. 7, No. 41; March 2018, doi:10.3390/electronics7030041. (I.F: 2.1)
- Saleha Bano, Ghous Bakhsh Narejo and Syed Muhammad Usman Ali Shah, 'Low Voltage Low Power Single Ended Operational Transconductance Amplifier for Low Frequency Applications', Wireless Personal Communications, pp. 1–10, April 2018. (IF:0.9)
- Saleha Bano, Ghous Bakhsh Narejo and S.M. Usman Ali Shah, 'Power Efficient Fifth Order OTA-C Filter with Multiple Outputs for ECG Detection System', Analog integrated circuits & Signal processing, 2018. (Submitted)
- Saleha Bano, Ghous Bakhsh Narejo and S.M. Usman Ali Shah, '0.9-V Single Stage Source Degeneration Sub-threshold Operational Transconductance Amplifier', Sindh University Research Journal (SURJ), 2017, ISSN: 1813-1743 (Submitted)
- Saleha Bano, Ghous Bakhsh Narejo & S.M. Usman Shah, 'Low Power Fully Differential Folded Cascode OTA with CMFB Circuit', Journal of Multidisciplinary Engineering science & technology (JMEST), Volume 4, Issue 7, July, 2017, ISSN: 2458-9403
- Saleha Bano and Talat Altaf, 'Universal Bi-quadratic Filter Based on Negative Impedance Converter', International Journal of Computer Technology and Electronics Engineering (IJCTEE) Volume 2, Issue 3, p. 102-105, June 2012, ISSN 2249-6343

### Conference Publications:

- Saleha Bano, Ghous Bakhsh Narejo and S.M. Usman Ali Shah, 'Single CDBA Based Bilinear Current Mode Canonic Universal Filter', IEEE Computing, Electronic and Electrical Engineering (ICE Cube), 11-12 April, Quetta, Pakistan, 2016. **DOI:** 10.1109/ICECUBE.2016.7495250
- Muhammad Talha, Talat Altaf, Saleha Bano, 'CDBA based single input current mode universal filter and unity gain amplifier', TENCON 2015, November 1-4, 2015, **DOI:** 10.1109/TENCON.2015.7373130
- Saleha Bano and Talat Altaf, 'Low pass, band pass and high pass filters using current inversion type negative impedance Converter', 14th IEEE International Multi-topic Conference (INMIC 2011), Karachi, Pakistan, December 22-24, 2011. Pages: 62 - 66, DOI: 10.1109/INMIC.2011.6151511
- Saleha Bano, Talat Altaf and Sunila Akbar, 'Microcontroller based spectrophotometer using compact disc as diffraction grid', Asia Communications and Photonics Conference and Exhibition, Shanghai, China, December 8-12, 2010, p. 332 – 336, **DOI:** 10.1109/ACP.2010.5682532

## CERTIFICATES

Certificates of following courses from Centre for Continuing Engineering Education (CCEE), NED University of Engineering and Technology, Karachi

- Advance Digital Electronics and Interfacing Techniques
- Analog VLSI
- Fuzzy Logic and Intelligent Electronic Control System

## SOFTWARE & COMPUTING SKILLS

- ORCAD
- Multisim
- Cadence