

# AMNA SHABBIR

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## Profile

Accomplished educator with demonstrated ability to teach, motivate, and direct students while maintaining high interest and achievement. Articulate communicator able to effectively interact with diverse populations of students at a variety of academic levels. Consistently maintain excellent relations with students, parents, faculty, and administrators. Self-motivated with strong planning, organizational and leadership skills.

## Academics

PhD	In Progress
Majors: Communication Engineering NED University of Sciences & Technology, Karachi	
Masters in Engineering	Dec 2009
Majors: Communication Engineering NED University of Sciences & Technology, Karachi	
Bachelors in Engineering	Dec 2006
Majors: Telecommunications NED University of Sciences & Technology, Karachi	

## Professional Experience

NED University of Sciences & Technology Lecturer – Electronics & Telecommunications Department	July 2007 – To Date
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Responsibilities include:

- Developing and implementing new methods of teaching to reflect changes in research
- Designing, preparing and developing teaching materials
- Delivering lectures, seminars and tutorials
- Assessing students' coursework, setting and marking examinations
- Undertaking personal research projects and actively contributing to the institution's research profile
- Writing up research and preparing it for publication
- Supporting students through advisory role and supervising students' research activities
- Undertaking continuous professional development and participating in staff training activities
- Participating in departmental and faculty seminars aimed at sharing research outcomes and building interdisciplinary collaboration within and outside the department.

- Undertaking administrative tasks related to the department, such as student admissions, induction programs and involvement in committees and boards
- Representing the institution at professional conferences and seminars, and contributing to these as necessary.

## Research Activities

Grant proposal:

- Co-Principal Investigator HEC research grant NRPU submitted in May, 2014 (Under process)

Publication:

[J1] Amna Shbbir, Attaullah khuwaja "Performance Analysis of Multi-Tier Heterogeneous Cellular Network", 'International Journal of Innovative Technology and Exploring Engineering (IJITEE)' Volume-4 Issue 5 October 2014 (accepted but not published yet)

[C1] Amna Shabbir, Attaullah Khuwaja, "Sum Capacity with Regularized Channel Inversion in Multi-antenna Downlink Systems under Equal Power Constraint" has been accepted for "ICCCISE 2015: International Conference on Computer, Communication and Information Sciences, and Engineering" to be held on Jan 26-27, 2015 in Jeddah, Saudi Arabia. (Applied for HEC travel grant)

[C2] Amna Shabbir, Ali Yasir "Improving space Time Diversity in a Fixed Point Link Using LMS Based Interference Cancellers", Digital Content, Multimedia Technology and its Applications (IDC),IEEE, Souel, Korea, 08-10 August 2010

## Languages/Software

MATLAB/Simulink, SONNET, Cadence and Lab View, MapInfo, Mapbasic, Plannet, Egilant, Multisim, Gaia, C language, Visual Basic

## Courses Taught

- Basic Electronics
- Electronic Devices and Circuits
- Amplifier and Oscillators
- Fundamentals of telecommunications
- Digital Signal Processing
- Communication Systems-I
- Communication Systems-II
- Optoelectronics and microwave engineering