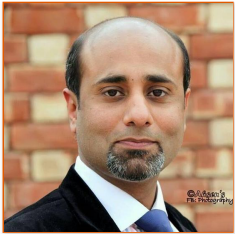# MUHAMMAD BILAL QASIM

Assistant Professor

Islamabad,Pakistan | +92 313 9182736 | bilal_qasim@comsats.edu.pk

Work experience

Assistant Professor   March 2011 - Present

CUI, Islamabad Campus

- Teaching and conducting labs at the undergraduate level which includes the following subjects:
  1. Introduction to computers and computing
  2. Digital Logic Design
  3. Signals and Systems
  4. Advance Digital Logic Design
  5. Digital Signal Processing
  6. Electromagnetic Theory
  7. Digital System Design
  8. Data structure and Algorithms

Lecturer   June 2007 - March 2011

CUI, Islamabad Campus

- Teaching and conducting labs at the undergraduate level which includes the following subjects:
  1. Introduction to computers and computing
  2. Digital Logic Design
  3. Signals and Systems
  4. Advance Digital Logic Design
  5. Digital Signal Processing
  6. Electromagnetic Theory
  7. Digital System Design
  8. Data structure and Algorithms

Teaching Associate   Oct 2005 - June 2007

CUI, Islamabad Campus

- Assisting the faculty members in their various teaching assignments.
- Assisting the teacher in conducting the lab sessions, maintaining the results of class, and checking assignments, quizzes, sessionals, and terminals.

Education

Master of Science in Telecommunication Engineering

N.W.F.P University of Engineering and Technology, Peshawar, Pakistan

Bachelor of Science in Computer Engineering

Comsats Institute Information Technology, Islamabad

Summary

Dedicated, detail-oriented, and skilled computer engineer with a creative mindset. Offering 1.5-decade of experience in teaching, research, and management. Providing quality education to students not only helps them gain distinctive position in the field of engineering but also help them make a responsible part of society with a strong character.

Skills

Administrative Tasks

Leadership Skills

Wireless and Logic Design

Time Management

Communication Skills

Managerial skills

Administration

Logic design

Analytical Skills

Time management

Programming

- Python
- C
- C++
- Matlab
- Verilog

Predictive Modelling

Supervised Projects

1. War zone Robot 2.0: An Intelligent tank like robot for border patrol and target elimination
2. Skin disease recognition method based on image colour and texture feature
3. CNC milling machine for PCB
4. Android based restaurant menu guider
5. Micro-controller based home security system
6. Solar charge controller
7. Autonomous Robot NERC 2011
8. Brain tumour classification and segmentation

Publications

- (IJCSIS) International Journal of Computer Science and Information Security, Vol. 6, No. 2, 2009 under title of 'Performance Evaluation of WiMAX (802.16) Using Different Encoding Schemes'.
- Performance evaluation of widely used port knocking Algorithms.

Skills

Urdu

Engilish

Accomplishments

Senior In charge Academics

Department of Electrical and Computer Engineering, CUI, Islamabad Campus

- Supervising the administrative tasks (registrations/ applications) of the department.
- Assisting the Head of the Department with the smooth running of day-to-day activities.
- Supervising the timetable, datasheet, and invigilation duties of all programs.
- Supervising all the faculty members, staff members, and lab staff in order to conduct classes smoothly.

In charge Computer Engineering Program

Department of Electrical Engineering, CUI, Islamabad Campus

- Supervising the administrative tasks (registrations/ applications) of the Computer Engineering Program.
- Assisting the senior in charge of academics and Head of the Department with the smooth running of day-to-day activities.
- Facilitating the Teachers and students wherever required.
- Supervising the timetable, datasheet, and invigilation duties of the Computer Engineering Program.
- Supervising classes and labs of various subjects of the Computer Engineering Program.
- Invigilating in exams whenever required to.

Senior Class Counselor

Department of Electrical Engineering, CUI, Islamabad Campus

- Training of all faculty members involved in counseling.
- Supervising the semester-wise results of all the students in the department.
- Dividing the students who were below or tend to fall below the Good Academic Standard (GAS).
- Supervising counseling and arranging meetings of students and counselors for the improvement of the CGPA of students.

Team Building

Microsoft Office

- MS word
- MS Excel
- MS PowerPoint

Deep Learning

- Neural Networks
- Keras
- Tensorflow

Programming

- C/C++
- Python

Area of interests

- Research
- Badminton
- Book collecting
- Science and technology studies

Manager Industrial visits

Department of Electrical Engineering, CUI, Islamabad Campus

- Getting approval for the educational trips from the front industries.
- Taking the students on various educational, and industrial trips.
- Coordinating with HR departments of industrial companies for educational trips.

In charge Front Office

Department of Electrical Engineering, CUI, Islamabad Campus

- Collecting the applications from the students and faculty members and process them for further response.
- Coordinating with the exams department in the conduct of exams.
- Collecting sample question papers and lists of marks from faculty members.

In charge Student Affairs (Departmental)

Department of Electrical Engineering, CUI, Islamabad Campus

- Supervising the co-curricular and extra-curricular activities of the department which were mostly organized by the students under the supervision of some faculty members and the Student Affairs Coordinator.
- Coordinating with Exams, Academics, and Student Affairs regarding the problems, queries, and applications of students.

Transport Coordinator (Departmental)

Department of Electrical Engineering, CUI, Islamabad Campus

- Coordinating with campus transport in charge related to transport requirements of the department.
- Taking the student on various recreational and educational trips.
- Coordinating with campus transport in charge and supervising the fleet of buses according to departmental requirements.

Sports Coordinator (Departmental)

Department of Electrical Engineering, CUI, Islamabad Campus

- Coordinating with campus sports in charge of organizing sports events held in or outside the university.
- Made teams for different sports and got them registered to participate in different departmental sports events.
- Made teams for different sports and got them registered to participate in inter-university events.
- Made teams for different sports and got them registered to participate in national-level events.

'CEPEX 2010' and 'CEPEX 2011'

Department of Electrical Engineering, CUI, Islamabad Campus

- CEPEX is a national level project exhibition held annually in COMSATS Institute of Information Technology. Responsibilities included arranging accommodation and transportation for participants

Certifications

- Staff Development Course (Higher Education Commission of Pakistan)
  - This certificate was presented after training from the Higher Education Commission of Pakistan under the Faculty Development Program. This training was basically to train the new faculty members. This training covered the following areas:
    - Students Psychology
    - Class Scenario
    - Effective Ways to deliver the lectures
    - How to counsel the Students
    - Research Methods
    - How to improve the quality of teaching
    - How to develop the interest of the students in the class
    - How to involve the students in lectures