

MUSTAFAIN ALI

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OBJECTIVE

An innovative and adaptable education professional seeking a position in a university setting. Hoping to bring change to the educational sector through research and self-actualization; and to promote education for the sake of education, not just progress.

SKILLS

- Clear communicator of complex ideas
- Effective Written and verbal communication
- Adaptability and flexibility
- Culturally-sensitive
- Computer Literacy: Well versed in the following:
 - a. Softwares:** MS Office, R Studio, MATLAB, Gambit, ArcGIS
 - b. Languages:** C++, Python, SQL

WORK HISTORY

Lecturer

NED University of Engineering & Technology

11/2018 – Present

Responsibilities:

- Taught **Biomechanics, Fluid Mechanics & Differential Equations** to undergraduate students.
- Supervising Final Year Project (FYP) for undergraduate students.

Visiting Faculty

Dadabhoj Institute of Higher Education (Main Campus)

06/2016 – 10/2018

Responsibilities:

- Taught introductory and upper level courses in Mathematics [**Calculus, Linear Algebra, Differential Equations, Numerical Computing**] to BS (Computer Science) undergraduate students,
- Taught introductory course on **Research Methodology** to undergraduate students.

Lecturer

Ziauddin University, College of Biomedical Engineering.

08/2014 – 07/2017

Responsibilities:

- Taught introductory and upper level courses in Mathematics [**Calculus, Linear Algebra, Differential Equations, Numerical Methods, Complex Variables, Laplace Transformation & Fourier Series**]
- Taught introductory courses on **Modeling & Simulation**

EDUCATION

Ph.D. Scholar Biomedical Engineering

08/2016 – Present

NED University of Engineering & Technology

- Investigating the Spatio – temporal dynamics of infectious diseases in host systems.
- Domain: Infectious Disease Modeling, Bio-Statistics and Public Health.

MS Applied Mathematics

2015

NED University of Engineering & Technology

- Coursework includes: Linear Algebra, Differential Equations, Numerical Methods and Heat Transfer, Computational Fluid Dynamics, Scientific Computing, Operations Research, Modeling & Simulation, Discrete Mathematics & Graph theory and Number Theory.
- CGPA = 3.6

BE Biomedical Engineering

2011

NED University of Engineering & Technology

- Major courses included: Computational Biology, Systems Biology, Biotechnology, Tissue engineering, Biomedical Electronics, Bioinstrumentation, Robotics & Control, Discrete Math and Algorithms, Bioinformatics, Human Anatomy, Physiology, Biochemistry and Introductory Mathematical courses.
- CGPA = 3.4

HSC Intermediate Pre-Engineering

2006

Adamjee Govt. Science College

- Secured 74% marks. (1st Division)

SSC Matriculation

2004

Al-Murtaza School

- Secured 88.71% marks. (1st Division)

PROJECTS & CO-CURRICULAR ACTIVITIES

- Final Year Projects Supervised:
 - **Investigating HIV – TB Coinfection Dynamics**
 - **Meta- population Analysis of Spread of Tuberculosis in Pakistan using MATLAB**
- **BE Undergraduate Final Year Project:** Fingerprint Verification via MATLAB
- Attending Karachi AI Data Analysts Course at KSBL (Karachi School of Business & Leadership)
- Received Certification on completion of course on “Infectious Disease Dynamics’ from *Coursera*
- Received Certification on completion of course on “Epidemiology: A science of Public Health” from *Coursera*.
- Built a model of “Air flow through Nasal Passage” via GAMBIT and simulation of fluid flow through FLUENT.
- Built an Electronic – Heat Induced Siren Circuit for Temperature threshold detection.
- Represented NED University at
 - “SLS 2010”, at UET Lahore through ASME.
 - “AMEC 2010” at GIKI through ASME.
- Organized and hosted various events as Vice – Chair for ASME NED Biomedical Section.
 - Egg-drop Competition at MECE 2010 NED through ASME.
 - Technical Paper Contest at MECE 2010 NED through ASME.
 - Quiz Competition at NEDUET LEJ Campus through ASME.