TAJWAR SULTANA

Email: engr.tajwar@neduet.edu.pk

EDUCATION

M.E., Computer Systems   2012
NED University of Engineering and Technology, Karachi, Pakistan
B.E., Computer and Information Systems   2007
NED University of Engineering and Technology, Karachi, Pakistan

PROJECTS SUPERVISION

- Interactive Robotic System as Rehabilitation Tool for Autistic Children   2018
- Urdu Word Recognition System   2017
- Intelligent System for Disease Diagnosis using Artificial Neural Network   2016
- Real-time Handwritten Urdu Text to Speech Converter for the Visually Impaired   2016
- Vigilance to restrain Neonatal Abduction using RFID Technology   2015
- Health Information System   2011
- Labview-based ECG Monitoring System   2010

RESEARCH PUBLICATION

T. Sultana, A. R. Abbasi, B. A. Usmani, S. Khan, W. Ahmed, N. Qaseem, Sidra, **"Towards Development of Real-Time Handwritten Urdu Character to Speech Conversion System for Visually Impaired"**, "International Journal of Advanced Computer Science and Applications",vol. 7, no. 12, pp. 24-30, 2016. [Online].
Available: http://thesai.org/Publications/ViewIssue?volume=7&issue=12&code=IJACSA

OTHER COURSES & CERTIFICATIONS

- Data Science (In progress)   2018
- Faculty Development Program   2018
- Big Data Science Workshop   2018
- Data Entry & Basic Analysis through SPSS Workshop   2016
- Endnote for Referencing Workshop   2016
- Training Program: Technical Computing with MATLAB   2016
- Digital Image Processing Course   2015
- Multirotor Aerial Robotics Contest Workshop   2015
- Project Management Training Program   2015

PROFESSIONAL EXPERIENCE

Lecturer   2007 - Present
Biomedical Engineering Department
NED University of Engineering and Technology

Current and Past Courses
- Programming Languages   Second Year, B.E
- Computer Programming   Second Year, B.E
- Discrete Mathematics and Algorithms   Third Year, B.E
- Artificial Intelligence   Final Year, B.E
- Logic Design and Switching Theory   Second Year, B.E
- Microprocessor Programming and Interfacing Techniques   Third Year, B.E

Administrative Duties

- Factotum (B.E Examination, NED University of Engineering and Technology)
- Invigilator (M.E, B.E Examination and Admission Entry Test, NED University of Engineering and Technology)
- Open Day Committee Member (Biomedical Engineering Department, NED University of Engineering and Technology)
- Class Advisor (Student Counselling and guidance, NED University of Engineering and Technology)

SYMPOSIUMS AND CONFERENCES

- Attended 1st International Conference on 4th Industrial Revolution, 1-2 August 2018, Karachi, Pakistan
- Attended 1st International Symposium of Biophysics, 1-2 June 2012, Karachi, Pakistan

TECHNICAL SKILLS

- Programming (C/C++, C#, VB.Net, ASP.Net, Python, MATLAB, Labview)
- Robotics (Lego Mindstorms NXT 1.0, RHINO XR4, Robotis OP2)
- MATLAB Toolboxes (Artificial Neural Networks, Digital Image Processing)
- Other Softwares (Microsoft Office, Endnote, SQL Server, RStudio)

COMMUNICATION SKILLS

Fluent in Urdu and English
IELTS (Academic) score – **Overall Score: 7.0**
Speaking – 7.0, Listening – 7.5, Reading – 7.5, Writing – 6.5
IELTS report date: 24th April 2017