



# Dr. Naveed Jan

**Mobile:** +92 3339128395

**E-mail:** [jannaveed@gmail.com](mailto:jannaveed@gmail.com), [naveed.jan@uotnowshera.edu.pk](mailto:naveed.jan@uotnowshera.edu.pk)

Assistant Professor / HoD

Department of Electrical Engineering Technology, University of Technology Nowshera,  
Pakistan

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## Educational Profile

- **PhD Electrical Engineering:** CECOS University of IT and Emerging sciences Peshawar, Pakistan. One of the applications of Wireless Sensor Networks (WSN) is monitoring, where security is invariably important. My PhD research focuses location privacy in sensor enabled networks which should be kept secure in WSN deployed for some critical scenarios.
- **Master of Science in Engineering; Modern Digital and Radio Frequency Wireless Communication,** University of Leeds UK, September 2006-September 2007.
- **Bachelor of Science in Computer System Engineering (Hons.),** N-W.F.P University of Engineering & Technology Peshawar, Pakistan, CGPA = 3.68/4.00, January 2002-March 2006.

## Professional Profile

- **HEC Approved PhD Supervisor**
- **Assistant Professor** (May 26, 2023 – till date)  
Head of Department, Electrical Engineering Technology, University of Technology Nowshera, Pakistan.
- **Assistant Professor** (August 11, 2017 – 25<sup>th</sup> May, 2023)  
Head of Department, Information Engineering Technology, University of Technology Nowshera, Pakistan.
  - Member Syndicate UoT Nowshera
  - Member Senate UoT Nowshera
  - Member Academic Council UoT Nowshera
- **Subjects Taught:**
  - Cloud Computing and IoT, Introduction to Computers Technology, Computer programming, Introduction to computer fundamentals, Data communications and computer networks.
- **Other Responsibilities and achievements at UoT Nowshera:**
  - Established new department of Information Engineering Technology and conducted successful visit of National Technology Council (Higher Education Commission)
  - HoD Department of Information Engineering Technology (Sept. 2018—till date)
  - Additional charge Director QEC (December 20121– till date)
  - Focal Person HEC's Pakistan Qualification Register (PQR) for UoT Nowshera
  - Chairman Examination Committee (March 2019 – till date)
  - Chairman Admission Committee (April 2019 to April 2023)
  - Chairman Disciplinary Committee (October 2019 – till date)
  - Additional charge of Assistant Registrar (Acad) (26/11/2019 to 17/09/2021)
  - Ex-Chairman Medical Committee

- **Member Academic Committee, Board of Technical & Commerce Education** (11/1/22 Till date)
- **Member National Technology Council's (NTC), National Curriculum Revision Committee (NCRC) on "Information Security Engineering Technology".**
- **Assistant Professor** (November 23, 2007 – August 10, 2017)  
Department of Electrical Engineering, CECOS University of IT and Emerging Sciences Hayatabad Peshawar, Pakistan.
  - **Subjects Taught:**
    - Telecommunication, Mobile Communication, Communication Systems, Antenna and Wave Propagation, Optical and wireless communication
  - **Other Responsibilities:**
    - Final Year Project Coordinator (1<sup>st</sup> Nov, 2012 –7<sup>th</sup> Sep, 2016)
    - Member of Board of Studies (15<sup>th</sup> Dec, 2009 – 30<sup>th</sup> Nov, 2012)
    - Course Coordinator Final Year EED
- **Internee** (July 17, 2004 - September 17, 2004)  
Pakistan Telecommunication Company Limited, City Telephone Exchange Peshawar.

## Research Projects:

1. Resolving Technical Shortcomings in Capsules Filling Machine: As principal investigator, this research project is in progress with a well-known pharmaceutical company MedAsia Pharmaceutical Pakistan.

## Research Publications

### Journal Publications

- [1] F. Mohammad, M. Khan, S. N. K. Marwat, **N. Jan**, N. Gohar et al., "Text augmentation-based model for emotion recognition using transformers", Computers, Materials & Continua, vol. 76, no.3, pp. 3523–3547, 2023. <https://doi.org/10.32604/cmc.2023.040202> ISSN: 1546-2218,1546-2226 (**HEC Category X**) (IF:3.1)
- [2] Inam Bari, Javed Iqbal, Haider Ali, Abdul Rauf, Muhammad Bilal, **Naveed Jan**, Usman Illahi, Muhammad Arif, Muhammad Amir Khan, Rania M Ghoniem " Bandwidth Enhancement and Generation of CP of Yagi-Uda shape Feed on Rectangular DRA for 5G Applications" Micromachines 2022, Volume 13, Issue 11. <https://doi.org/10.3390/mi13111913> ISSN: 2072-666X (**HEC Category W**) (IF: 3.52)
- [3] Shahid Khan, Muhammad Amir Khan , Muhammad Anab, Safdar Nawaz, Khan Marwat, **Naveed Jan**, Rania M. Ghoniem, "Wideband Singly fed Compact Circularly Polarized Rectangular Dielectric Resonator Antenna for X-band Wireless Applications" Electronics 2022, Volume 11, Issue 20. <https://doi.org/10.3390/electronics11203281> ISSN: 2079-9292 (**HEC Category W**) (IF: 2.69)
- [4] Muhammad Amir Khan , Jawad Khan, Khalid Mahmood, Inam Bari, Haider Ali, Naveed Jan, Rania M. Ghoniem, "Algorithm for Increasing Network Lifetime in Wireless Sensor Networks Using Jumping and Mobile Sensor Nodes". Electronics. 2022, Volume 11, Issue 18 <https://doi.org/10.3390/electronics11182913> ISSN: 2079-9292 (**HEC Category W**) (IF: 2.69)
- [5] Raheel Siddiqui, Hafeez Anwar, Farman Ullah, Rehmat Ullah, Muhammad Abdul Rehman, **Naveed Jan**, and Fawad Zaman, "Power Prediction of Combined Cycle Power Plant (CCPP) Using Machine Learning Algorithm-Based Paradigm". Wireless Communications and Mobile Computing

(Volume 2021). <https://doi.org/10.1155/2021/9966395> ISSN: 1530-8677,1530-8669 (HEC Category W) (IF: 2.336)

- [6] Ali, Haider, Xin-Cheng Ren, Inam Bari, Muhammad A. Bashir, Anas M. Hashmi, Muhammad A. Khan, Saad I. Majid, **Naveed Jan**, Wajahat U.K. Tareen, and Muhammad R. Anjum. 2022. "Four-Port MIMO Antenna System for 5G n79 Band RF Devices" *Electronics* 11, no. 1: 35. <https://doi.org/10.3390/electronics11010035> . ISSN: 2079-9292 ( IF: 2.39) (HEC: Category X)
- [7] Ali, Haider, Xin-Cheng Ren, Anas M. Hashmi, Muhammad R. Anjum, Inam Bari, Saad I. Majid, **Naveed Jan**, Wajahat U.K. Tareen, Amjad Iqbal, and Muhammad A. Khan. 2021. "An Eight Element Dual Band Antenna for Future 5G Smartphones" *Electronics* 10, no. 23: 3022. <https://doi.org/10.3390/electronics10233022> . ISSN: 2079-9292 ( IF: 2.39) (HEC: Category X)
- [8] Saad Hassan Kiani, Xin Cheng Ren, Muhammad Rizwan Anjum, Khalid Mahmood, Haider Ali, **Naveed Jan**, Muhammad Adil Bashir and Muhammad Abbas Khan, "A Novel Shape Compact Antenna for Ultrawideband Applications". *International Journal of Antennas and Propagation*, Volume 2021, <https://doi.org/10.1155/2021/7004799> (HEC: Category X) ISSN: 1687-5877
- [9] Saad Ijaz Majid, Syed Waqar Shah, Safdar Nawaz Khan Marwat, Abdul Hafeez, Haider Ali, **Naveed Jan**, "Using an Efficient Technique based on Dynamic Learning Period for Improving Delay in AI Based Handover". *Mobile Information Systems*. Volume 2021, <https://doi.org/10.1155/2021/2775278>. (IF: 1.802) (HEC: Category X) ISSN: 1875-905X
- [10] Khurshid Ahmad, Muhammad Athar Javed Sethi, Rehmat Ullah, Imran Ahmed, Amjad Ullah, **Naveed Jan** and Ghulam Mohammad Karami, "Congestion-Aware Routing Algorithm for NoC Using Data Packets". *Wireless Communications and Mobile Computing*. <https://doi.org/10.1155/2021/8588646> ISSN: 1530-8677,1530-8669 (HEC Category W) (IF: 2.336)
- [11] **Naveed Jan**, Sarmadullah Khan, Ali H. Al-Bayatti, Madini Alassafi, Ahmed Alfakeeh, Mohammed A. Alqarni, "C2S2-LOOP: Circular Chessboard based Secure Source Location Privacy Model using ECC-ALO in WSN". *Wireless Communications and Mobile Computing*. Volume 2021, <https://doi.org/10.1155/2021/9912626> ISSN: 1530-8677,1530-8669 (HEC Category W) (IF: 2.336)
- [12] Waqas Khan, Khalid Saeed, Sheeraz Ahmad, Tariq Bashir, M. Shahzad, Asif Nawaz, Adil Khan, **Naveed Jan**, Zia Ullah Khan, "Impact of black hole attack on the performance of dynamic source routing and optimized link state routing protocols in MANETS". *Journal of Mechanics of Continua and Mathematical Sciences (JMCMs)*. ISSN: 2454-7190, 0973-8975. Doi: <https://doi.org/10.26782/jmcm.2021.03.00002>. (HEC Category Y)
- [13] Shaheer Shaida Durrani, Abu Zaharin Bin Ahmad, Bakri Bin Hassan, Atif Sardar Khan, Asif Nawaz, **Naveed Jan** et al. "An Efficient Color LED Driver based on Self-Configuration Current Mirror Circuit" *International Journal of Advanced Computer Science and Applications (IJACSA)*, Volume 12 Issue 2, 2021, 2021. <http://dx.doi.org/10.14569/IJACSA.2021.0120244> (ESCI)
- [14] Shahzad Hameed, Qurratul-Ain Minhas, Sheeraz Ahmed, Asif Nawaz, Muhammad Shahzad and **Naveed Jan** "Nature Inspired Optimization Techniques, A review for FANETS" *Sukkur IBA Journal of Emerging Technologies*. 2020. doi: <https://doi.org/10.30537/sjet.v3i2.716> (HEC Category Y)
- [15] M. Javed, Asim Zeb, M. Shahzad, Asif Nawaz, Ahmed Ali Shah, **Naveed Jan**, Zeeshan Rasheed, Atif Ishtiaq, Sheeraz Ahmed, "Thermal Aware Link Energy Efficient Scheme For Body Area Networks" *Journal of Mechanics of Continua and Mathematical Sciences* . Vol – 15 No -12, December 2020. ISSN: 2454-7190, 0973-8975. Doi: <https://doi.org/10.26782/jmcm.2020.12.00009> (HEC Category Y)

- [16] Mujahid shah, Shahbaz Qadar Khattak, Muhammad Farooq, Sadeeq Jan, Mehtab Ejaz Qureshi, **Naveed Jan**, Sheeraz Ahmed. “A Secured and Enhanced Mitigation Framework for DDOS Attacks”. Journal of Mechanics of Continua and Mathematical Sciences. Vol – 14 No -6, December 2019 ISSN: 2454-7190, 0973-8975. <https://doi.org/10.26782/jmcmds.2019.12.00075> (HEC Category **Y**).
- [17] **Naveed Jan** and Sarmad Ullah Khan. Energy-efficient source location privacy protection for network lifetime maximization against local eavesdropper in wireless sensor network (EeSP). Trans Emerging Tel Tech. **2019**;e3703. <https://doi.org/10.1002/ett.3703> ISSN: **2161-3915** ( **HEC Category W**) (**IF: 1.594**)
- [18] **Naveed Jan**, Al-Bayatti, A.H.; Alalwan, N.; Alzahrani, A.I. An Enhanced Source Location Privacy based on Data Dissemination in Wireless Sensor Networks (DeLP). *Sensors* **2019**, *19*, 2050. <https://doi.org/10.3390/s19092050> ISSN: 1424-3210, 1424-8220 ( HEC Category **W**) (**IF: 3.275**)
- [19] Byung Wan Jo, Muhammad Ali Sikandar, Zafar Baloch, Amjad Naseer, **Naveed Jan**, Qaiser Jamal, “Effect of w/b ratio and binder content on the properties of self-compacting high performance concrete (SCHPC)”. Journal of Ceramic Processing Research. Vol. 19, No. 2, pp. 171~178 (2018). ISSN 1229-9162. ( HEC Category **W**).

## Undergraduate projects supervised

- GSM Based Fuel tank (level) monitoring and display system
- GSM and GPS based vehicle tracking and security system with the keypad
- Android controlled spy robotic vehicle
- Hidden Active cell phone detector
- Smart Notice Board
- Self Balancing Robot
- Visible light Communication
- An Energy efficient protocol for location privacy in wireless sensor network

## Programming experience

C, C++, Visual Basic (VB), MATLAB.

## Tools

Omnet ++, LaTeX, Electronic Workbench, Microsoft Office

## Awards

- Merit Scholarship titled as “Pakistani School Scholarship” awarded by University of Leeds UK for my MS- Engineering.
- Merit Scholarship awarded by N-W.F.P University of Engineering & Technology, Peshawar, Pakistan in all four years of B.Sc. Engineering.

## Personal Profile

- **Personal**
  - Can easily get along and work in different environment.
  - Capable of learning new concepts in a short period of time.
  - Hardworking, organized, reliable & conscientious.
  - Good interpersonal and communication skills.
- **Team Work**

- I believe encouragement and negotiation as an essential part of every group work. As an HoD, acting as a team leader polished my skills and encouraged me to take initiatives and work hard for the achievement of the aim.

## **Membership**

- Member of Pakistan Engineering Council (PEC).

## **Language Proficiency**

- English, Urdu and Pashto