



Faculty Profile

Full Name, Title: SAQIB MUNAWWAR, ENGINEER

Position/Designation: ASSISTANT PROFESSOR

Faculty/Department: FEPS/DEE

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Short Introduction



Engr. Saqib Munawwar is the Pioneer Faculty Member at Faculty of Engineering Practices and Sciences (FEPS) and credited to have first Foreign Research Visit which is acknowledged by the Federal HEC Islamabad also established various international technical students' societies/bodies at the Nazeer Hussain University (NHU).

- Recipient of Best Advisor Award conferred in the 11th edition of Pakistan Congress by the IEEE (USA)
- R&D honours & awards from Singapore & Malaysia
- Educational tours to New Delhi, Moratuwa & Kiev
- Collaborative visits to Bangkok & Istanbul
- Professional training from Abu Dhabi by German firm
- Published 03 books
- Author/coauthor in the reputed conferences/journals
- Honour being the recipient of "Muslim Icon" title in the ARY Qtv Youth Council and Catalyst at renowned International/National HEIs/RIs
- People Dictionary Member, U.S. Green Building Council

Experience

2013 – Present: Assistant Professor at Faculty of Engineering Practices and Sciences (FEPS), NHU

Served/serving as:

- Founder Chair, Board of Studies (BoS), Department of Computer Science & Technology (DCS&T)*
- Acting Controller of Examinations*
- Acting Chairman, Department of Electrical Engineering*
- NHU Focal Person to the Federal Govt. of Pakistan's Ministry of IT & Telecom, National Grassroots ICT Research Initiative (NGIRI), IGNITE National Technology Fund, Islamabad (2017 – present)
- NHU's First Focal Person to the NAVTTC (National Vocational and Technical Training Commission), Govt. of Pakistan's Ministry of Federal Education and Professional Training, Regional Office, Karachi.
- Member, NHU ORIC (2013 – present).
- NHU Initiator as per the letter of Federal HEC-NTC in FEPS's BoF for the adoption of BET degree nomenclature for all ET programs (1. Civil, 2. Electrical, 3. Electronics & 4. Mechanical).
- Founder Board Member/Secretary, Board of Faculty (BoF), FEPS
- Board Founder Member, BoS, DEE, FEPS (2013 – present)



- Member, NHU Purchase Committee
- Founder Board Secretary, BoS, DEE (2013 – 2024)*
- NHU QEC Dy. Director (Director QEC: Prof. Dr. Khawaja Zafar Ahmed)*

Courses Taught: Research Methodology, Power Distribution & Utilization, COA, Programming, Robotics, EMFT, Electrical Network Analysis, Machines, Instrumentation & Measurements, Linear Circuit Analysis, Electric Circuits, Electronic Circuit Design, and Electronic Devices and Circuits.

Supervised/Co-Supervised: 30+ Capstone Projects of Computing, Electrical and Electronics.

Timeline:

- 2013 Federal HEC Islamabad Visit: Team Member under the supervision of founder Vice Chancellor
- 2014 PEC Visit: Team Member under the supervision of Chairman Dept. of Electrical Engineering
- 2015 CIEC Sindh HEC Visit: On behalf of the Office of Chairman, Lead the Dept. of Electrical Engg.
- 2016 IPE-QEC (Federal HEC Islamabad) Visit Lead the Department of Electrical Engineering
- 2017 CIEC Sindh HEC Visit: On behalf of the Office of Chairman, Lead the Dept. of Electrical Engg.
- 2018 PEC Visit: Team Member under the supervision of Dean and Lead the Dept. of Electrical Engg.
- 2019 Federal HEC, NTC Visit: Team Member under the supervision of Vice Chancellor and Lead DEE
- 2020 PEC Accreditation on 09 October: On behalf of the Office of Chairman, Lead the DEE
- 2021 PEC Reaccreditation on 28 October: On behalf of the Office of Chairman, Lead the DEE
- 2022 Federal HEC, NTC Visit: Team Lead under the supervision of Dean & Lead the DEE
- 2023 Federal HEC, NTC & CIEC, Sindh HEC Visits for Electrical and Electronics
- 2024 PEC Reaccreditation Visit: Lead & delivered the Chairman Departmental Presentation on the instruction of Dean which included 07 PhDs faculty members out of 15 faculty member strength.
- 2025 Federal HEC, NTC Reaccreditation Visit: Lead the Chair's Departmental Presentation on the directives of Acting VC which included 03 PhDs faculty members out of 06 faculty member strength.

Educational Information

- Ph. D. Candidate, Hamdard University.
- Master of Engineering Management (Energy) from NEDUET with 02 research papers publication.
- Master of Engineering (Electrical) from Hamdard University with Federal HEC acknowledged foreign research visit to Ukraine, 03 books and 06 research papers publication.
- Bachelor of Engineering (Electronic) from Hamdard University with study tours to Singapore, India, Malaysia & Sri Lanka and 04 research papers publication.

Achievements, Research/Publications

Achievements

2025:

- Lead the Chairman's Departmental Presentation for Federal HEC, NTC Reaccreditation Visit.



ii. Council Member, Karachi Local Centre, IEEEEP

2024:

i. Lead the Chairman's Departmental Presentation for PEC Reaccreditation Visit.

ii. Council Member, Karachi Local Centre, IEEEEP

iii. Member, Executive Committee, IEEE (USA) Karachi Section

2023:

i. Honour Chief Guest and Distinguished Speaker at FAST-NUCES in IEEE (USA) Day Celebrations & Interactive Talk

ii. Session Secretary, 37th IEEEEP All Pakistan Students' Seminar on 22 February at DHA Suffa Univ.

iii. Council Member, Karachi Local Centre, IEEEEP

iv. Member, Executive Committee, IEEE (USA) Karachi Section

2022:

i. Guest Speaker at IIEE (Institute of Industrial Electronics Engineering) on 31st August.

ii. Convener Student's Affair, IEEE Karachi Centre in 36th IEEEEP Multi-Topic International Symposium at Hotel Pearl Continental on 16 and 17 March.

iii. Member, Executive Committee, IEEE (USA) Karachi Section

2021:

i. Council Member, Karachi Local Centre, IEEEEP

ii. Member, Executive Committee, IEEE (USA) Karachi Section

2020:

i. IEEEEP Convener Registration, 35th Multi-Topic International Symposium at Hotel Pearl Continental on 26-27 February.

ii. Member, Executive Committee, IEEE (USA) Karachi Section

2019:

i. IEEEEP Convener Registration, 34th Multi-Topic International Symposium at Hotel Pearl Continental on 20-21 February.

ii. Member, Executive Committee, IEEE (USA) Karachi Section

2018:

i. Convener Registration, 33rd IEEEEP Multi-Topic International Symposium held on 14-15 March at Pearl Continental Hotel, Karachi.

ii. Recipient, Appreciation Award by Mehran UET in 33rd IEEEEP All Pakistan Students' Seminar On 08 Feb. for serving as Technical Session Secretary.

iii. Recipient, Program Committee Membership Diploma by Portugal (INSTICC) Institute of Systems and Technologies of Information, Control and Communication for servicing in the 11th International Conference BIOSIGNALS/BIOSTEC, Setubal, 21 Jan.

iv. Member, Executive Committee 2018, IEEE (USA) Karachi Section.

2017:

i. Recipient, IEEE Best Advisor Award in IEEE (USA) Pakistan Congress at Superior Univ. Lahore 14Oct17.

ii. Guest Speaker Souvenir in 11th IEEE (USA) Pakistan Congress at Superior Univ. Lahore 13Oct17.

iii. Recipient, Chief Guest Shield of Honour from the Chancellor SSUET along with the Registrar SSUET, Chairman Dept. of Electrical Engineering SSUET, Director ORIC SSUET and Counselor IEEE SSUET on the occasion of Inauguration Ceremony of IEEE Power and Energy Society Student Chapter at SSUET.



- iv. Member, Executive Committee 2017, IEEE (USA) Karachi Section.
- v. Co-Convener, 2017 32nd IEEE International Multi-Topic Symposium.

2016:

- i. Guest Speaker Memento conferred by the Registrar SSUET.
- ii. Founding Counselor, IEEE (USA) NHU Student Branch (Branch Code: STB15142 and School Code 60108390).
- iii. Founding Faculty Sponsor, NHU ACM (USA) Student Chapter (ID: 146262).
- iv. Founding Faculty Sponsor, NHU ACM-Women (USA) Student Chapter (ID: 146282).
- v. Founding Advisor, ASHRAE (USA) NHU Student Branch.
- vi. Flag-bearer among all the societies'
- vii. Faculty In-Charge at the Nazeer Hussain University for SEECC (Society of Electrical, Electronics, Computer and Communications).
- viii. Member, Executive Committee 2016, IEEE (USA) Karachi Section.

2015:

- i. Founding Faculty In-Charge at the Society of Electrical, Electronics, Computer and Communications (SEECC) at the Nazeer Hussain University (NHU).
- ii. Fortnightly Engineering Review Newspaper featured my profile in the November 1-15, 2015 issue Vol. 40, No. 21 on page no. 5.

2014:

- i. NHU Torchbearer as First ever NHU report published in the HEC News & Views October 2014 issues Hard/Soft Copies about Foreign Research Visit to Ukraine.
- ii. Convener mementoes conferred by the Mehran UET & IEEE Karachi Centre one each. Event report published in the HEC News & Views March 2014 issue.

2013:

- i. Judge Memento conferred by the Sindh Govt. Minister at Mehran UET Jamshoro.
- ii. Guest Speaker plaque conferred by the GC University Faisalabad in TechFair.
- iii. The Pioneer (fulltime) faculty member at entire FEPS in NHU.
- iv. Guest Speaker, Seminar at NEDUET; Presented Flowers Bouquet. Chief Guest: Dr. Shoaib Zaidi (Former Dean FECE).

2012: Guest Speaker & Judge Souvenir conferred by the Rector GIKI, Swabi.

2011: Guest Speaker at HCT Abu Dhabi, UAE.

2010:

- i. Winner, Pride of Kuala Lumpur conferred by the UTAR Malaysia.
- ii. Guest Speaker Souvenir conferred by the University of Moratuwa, Sri Lanka.
- iii. EIR™ Magazine featured on full cover page in December 2010 issue.
- iv. ARY Q-tv Youth Council Muslim-Icon http://www.youtube.com/watch?v=IU_rsprgsil
- v. Acknowledgement Award conferred by President UIT in recognition of outstanding contributions for the IEEE Karachi Section.

2009:

- i. Singapore Bronze Honours in IEEE 125th Anniversary Asia-Pacific Congress at NUS.
- ii. Guest Cup conferred by the JMI New Delhi, India.
- iii. Guest Speaker Souvenir conferred by the NUST Islamabad.
- iv. Cash prize (PKR15K) and paper presenter shield conferred at Jinnah Convention Centre,



Islamabad.

2008: Cash prize (PKR15K) and paper presenter shield conferred at Fortress Stadium, Lahore.

2007: Cash prize (PKR10K) and paper presenter souvenir conferred by the VC NEDUET (CEng Abul Kalam) at Expo Center.

Research/Service Activity

Research Grants: In the capacity of NHU Founder Focal Person to IGNITE, faculty members and students won various research grants; the details are available on IGNITE website.

2024 Reviewer, ACDSA 2024, Victoria-Seychelles

2023 Speaker: FAST-NUCES, Karachi

2022 Speaker: IIEE, Karachi

2021 Reviewer & TPC Member, 12th ICICS, Spain

2021 Reviewer & TPC Member, 10th ICIT, Jordan

2020 Reviewer & TPC Member, CINTISI, Morocco

2019 Reviewer & TPC Member, 10th ICICS, Jordan

2019 Reviewer & TPC Member, JEEIT, Jordan

2018 Reviewer & TPC Member: 9th ICICS, Jordan Univ. of Science & Technology (EasyChair)

2018 Reviewer as PC Member: BIOSIGNALS Portugal (PRIMORIS)

2017 Reviewer as PC Member: ICITech Indonesia (EDAS)

2017 Speaker: Superior University Lahore

2017 Reviewer as PC Member: UKRCON Ukraine (EasyChair)

2017 Reviewer as TPC Member: 3rd CloudTech Morocco (EasyChair)

2017 Reviewer as TPC Member: 4th AEECT Jordan (EDAS)

2017 PC Member: 8th ICICS, Jordan University of Science and Technology (EasyChair)

2016 Speaker: University of Karachi

2016 Guest Speaker: SSUET, Karachi

2015 Reviewer as TPC Member: 3rd AEECT, University of Jordan (EDAS)

2015 Sub-Reviewer: ICCCS, Mauritius (EasyChair)

2014 Reviewer as PC Member: IEPS, National Academy of Sciences & National Technical University, Ukraine

2013 Reviewer as TPC Member: 2nd AEECT, University of Jordan (EDAS)

2013 Speaker: GC University, Faisalabad

2013 Judge: Mehran UET, Jamshoro

2013 Speaker: NEDUET, Karachi

2013 Speaker: ISRA University, Hyderabad

2012 Speaker: IIEE, Karachi

2012 Judge + Speaker: GIKI, Swabi

2011 Speaker: HCT, Abu Dhabi, UAE

2010 Speaker: Univ. of Moratuwa, Sri Lanka

2010 Speaker: Multimedia University (MMU), Malaysia



2010 Scholar: UTAR, Petaling Jaya, Malaysia
2010 Speaker: UIT, Karachi
2010 Speaker: Dawood UET, Karachi
2010 Speaker: UET Lahore
2010 Speaker: QUEST, Nawabshah
2010 Speaker: Jinnah University for Women
2009 Speaker: JMI, New Delhi, India
2009 Scholar: NUS, Singapore
2009 Speaker: NUST, Islamabad
2009 Speaker: IQRA University, Karachi
2009 Speaker: PAF-KIET, Karachi
2009 Speaker: University of Sindh, Jamshoro
2008 Scholar: PNEC-NUST, Karachi
2008 Speaker: Hamdard University, Karachi
2007 Delegate: FAST-NUCES, Karachi

List of Publications

Books:

1. Book Title: "Electronic Speaking Glove for Speechless Patients"
Saqib Munawwar, Syed Muhammad Baber Ali, Syed Faiz Ahmed
Date of Publication: 08 August 2013, ISBN: 978-3-659-29876-9
2. Book Title: "Design & Development of a UAV Autonomous Control System"
Saqib Munawwar (Editor), M. Arslan Amin Dhorajiwala, Uzair Ahmed Chughtai
Date of Publication: 15 July 2014, ISBN: 978-365-956071-2
3. Book Title: "Role of HR Practices in Employee Retention"
Saqib Munawwar (Editor), Nargis Qazi, Farah Munawar
Date of Publication: 05 September 2014, ISBN: 978-365959403-8

Journals:

1. **Saqib Munawwar**, Tauseef Rasheed, "Solar Panel Controlling and Tracking System - A Smart Tracker and Controller to Charge Automatically Solar System" under review process in the Arabian Journal for Science and Engineering [Q1, IF (2025): 2.9].
2. Syed Saad Ali, Shujaat Ali, **Saqib Munawwar**, Fasih Ahmed, M. Nawaz Rahim, M. Sohail Tanoli, M. Kamran, Perfshan Erum, Aisha Ghufuran "Modeling and Implementation of a Density-Based Traffic Management System via Programmable Logic Controller", International Journal of Innovations in Science and Technology Vol. 7 No. 3 (2025) (HEC Y Category).



3. Syed Saad Ali, Shujaat Ali, Khurram Iqbal, **Saqib Munawwar**, Bilawal Raza, Aftab Ahmed Almani, Muhammad Jawad “Design and control of efficient wireless electrical energy transfer”, Policy Research Journal Vol. 3 No. 7 (2025) (HEC Y Category).
4. Shujaat Ali, Syed Saad Ali, Sajjad Ali , Asad A. Zaidi, Ahsan Zafar, **Saqib Munawwar**, Muhammad Shafique “Development of automated fire control system: An integrated solution for gas, fire and smoke detection”, Pakistan Journal of Engineering, Technology & Sciences Vol. 13 No. 1 (2025) (HEC Y Category).
5. Syed Saad Ali, Shujaat Ali, Asad A. Zaidi, Junaid Khan, Ahsan Zafar, **Saqib Munawwar**, Hermain Fayyaz Karim “Techno-economic feasibility and sustainability of a solarpowered smart irrigation system in Pakistan”, International Journal of Energy, Environment, and Economics Volume 32 Issue 3 (2025) (HEC Y Category).
6. Farhat M. Khan, **Saqib Munawwar**, Syed Saad Ali, Khurram Iqbal, Mahrukh Shoaib, Shumaila Qamar, Hamza Saleem, Bilawal Raza “Intelligent Bluetooth-driven Automation: Multi- sensor integration for real-time smart home control” Spectrum of Engineering Sciences, Volume 3 No. 7 (2025) (HEC Y Category).
7. Syed Saad Ali, Shujaat Ali , Junaid Khan , Zarak Khan , Muhammad Saleem , **Saqib Munawwar** “Design and implementation of a sustainable microcontroller based solar power automatic water irrigation control and monitoring system”, Pakistan Journal of Engineering, Technology & Sciences Vol. 12 No. 1 (2024) (HEC Y Category).
8. Javeria Shaikh, Fawad Azeem, **Saqib Munawwar**, Lalarukh Tunio, “Healthcare Energy Efficiency HVAC Architectural Model”, presented in the 25th AHSRAE (USA) Pak. Conference held at Jinnah Convention Centre Islamabad, April 5-7, 2018; published in the Pakistan HVACR Journal Issue # 40 - 2018, pp. 92-95.
9. **Saqib Munawwar**, “Green Building – An Efficient & Economical Concept” PHVACR Journal, Issue No. 34, 2012 pp. 91-94, Islamabad, Pakistan.
10. **Saqib Munawwar**, “Overview of BACnet”, PHVACR Journal, Issue No. 28, 2009, pp. 70-76, Islamabad, Pakistan.
11. **Saqib Munawwar**, “Economise Illumination and AC System,” PHVACR Journal, Issue No. 21, Islamabad, Pakistan, 2007, pp. 40-47.

Conferences:

1. Khurram Iqbal, Syed Saad Ali, Mansoor Ebrahim, **Saqib Munawwar**, Muhammad Aamer Saleem, "Quantum Enhanced Security Frameworks for the Internet of Things: Challenges and Future Directions" in the 2nd International Conference on Cybersecurity and Digital Defense (ICyDD), Jinnah University for Women, Karachi, Pakistan, October 24-25, 2025.



2. Javeria Shaikh, **Saqib Munawwar**, Farhat Muhammad Khan, "Application of 3M Analysis for decreasing wasted spaces in Healthcare setting in KPK" in the 3rd International Conference on Emerging Trends in Engineering, Management and Sciences (3rd ICETEMS), CUSIT, Peshawar, Pakistan, October 18-19, 2018. ISBN # 978-969-23044-3-6
3. Fawad Azeem, **Saqib Munawwar**, "Design and Analysis of Load Switching Mechanism Using Sub-Microgrid Approach" in the 4th IEEE International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET), 10-12 September 2018, Islamabad, Pakistan. Conference Code # 44306, ISBN No. 978-1-5386-7027-9
4. **Saqib Munawwar**, "Role of HR Practices in Employee Retention", in the 2nd International Conference on Emerging Trends in Engineering, Management and Sciences (2nd ICETEMS), CUSIT, Peshawar, Pakistan, December 28-29, 2016, pp. 551-559. ISBN 978-969-23044-2-9.
5. **Saqib Munawwar**, "Role of Human Resource Practices in Employee Retention and to Study a New Technique of Retention", in the 2nd International Conference on Emerging Trends in Engineering, Management and Sciences (2nd ICETEMS), CUSIT, Peshawar, Pakistan, December 28-29, 2016, pp. 560-567. ISBN 978-969-23044-2-9.
6. **Saqib Munawwar**, Kashif Mushtaq, Nasim Akhtar Khan "Green Energy Grows, Rural Sustainability – An Outreach to the Unreachable," in the 29th IEEEEP Multi-topic International Symposium, Karachi, Pakistan, 26-27 March 2014, pp. 24. DOI: 10.13140/RG.2.1.3002.6402
7. **Saqib Munawwar**, Syed Salman Moudood Zaidi, "Energy Conservation & Monitoring Control System Design," in the 5th World Engineering Congress, NUST, Islamabad, Pakistan, 23-24 September 2013, pp. 16. DOI: 10.13140/RG.2.1.3199.2481
8. **Saqib Munawwar**, Raza us Samad Akhtar, "Community Health Information System," in the 5th World Engineering Congress, NUST, Islamabad, Pakistan, 23-24 September 2013, pp. 39. DOI: 10.13140/RG.2.1.2150.6724
9. S. Faiz Ahmed, S. M. Baber Ali, **Saqib Munawwar**, "Electronic Speaking Glove for speechless patients, a tongue to a dumb," in the IEEE Conference on Sustainable Utilization and Development in Engineering and Technology (STUDENT), Malaysia, 20-21 November 2010, pp. 56-60. Print ISBN: 978-1-4244-7504-9; DOI: 10.1109/STUDENT.2010.5687009; INSPEC Accession Number: 11747558
10. **Saqib Munawwar**, Puneet Walia, Sakib Mohammed Muhtadi, Syeda Synnia Tanveer, Jugunu George, Srikanta Patanjali, Kam Chak Lam Francisco, Youngje Kim, "Green Power Grows," in the Engineering and Industrial Review Supplement of March for 25th IEEEEP Multi-topic International Symposium, Karachi, Pakistan, 17-18 March 2010, pp. 71-73. DOI: 10.13140/RG.2.1.2543.8889



11. Muhammad Abdullah Sandhu, **Saqib Munawwar**, “Development of Communication System WiMAX,” in the Engineering and Industrial Review Supplement of April for 24th IEEEEP Multi-topic International Symposium, Karachi, Pakistan, 08-09 April 2009, pp. 45-59. DOI: 10.13140/RG.2.1.2330.8966
12. **Saqib Munawwar**, “Magnetic Refrigeration – An Economical Refrigeration Systems” 4th IMEC, the Institution of Engineers Pakistan, 2009, pp. 5, Karachi, Pakistan.

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