


Curriculum Vitae Dr. Irfan Ahmed Halepoto

PERSONAL INFORMATION																																																																																																	
Name: Irfan Ahmed Halepoto Qualification: PhD (Electronic Engineering) Date of Birth: March 28, 1982 Marital Status: Married (02) Languages: English, Urdu, Sindhi Nationality: Pakistani	Contact: 0092-3368287935 Email Address: irfan.halepota@faculty.muett.edu.pk Website: https://www.muett.edu.pk/departments/electronics-engineering/faculty-members																																																																																																
																																																																																																	
Field of Specialization: Energy Management System, Micro Grids, Power Electronics Research Interests: Artificial Intelligence, Machine Learning, Industrial Automation																																																																																																	
Professional Designation: Associate Professor, Department of Electronic Engineering, Mehran University of Engineering & Technology, Jamshoro, Pakistan.	Postal Address: Department of Electronic Engineering, Mehran University of Engineering & Technology, Jamshoro, Pakistan. Postal Code: 76062																																																																																																
Research Contributions	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="6" style="text-align: center;">Research Publications</td> </tr> <tr> <td style="width: 33%;">Journal Articles</td> <td style="width: 10%;">39</td> <td style="width: 33%;">Conference Papers</td> <td style="width: 10%;">23</td> <td style="width: 10%;">Book Chapter Proposals</td> <td style="width: 10%;">3</td> </tr> <tr> <td colspan="6">Google Scholar:</td> </tr> <tr> <td>Citation Score</td> <td>517</td> <td>h-index</td> <td>12</td> <td>i10-index</td> <td>17</td> </tr> <tr> <td colspan="6">Profile Link: https://scholar.google.com.pk/citations?user=MdzlcokAAAAJ&hl=en&oi=ao</td> </tr> <tr> <td colspan="6">Research Gate:</td> </tr> <tr> <td>Research Interest Score</td> <td>608.8</td> <td>Percentile Score</td> <td>89%</td> <td>Total Reads</td> <td>64,303</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td>Research Recommendations</td> <td>650</td> </tr> <tr> <td colspan="6">Profile Link: https://www.researchgate.net/profile/Irfan-Halepoto</td> </tr> <tr> <td colspan="6">Academia:</td> </tr> <tr> <td>Total Views</td> <td colspan="2">11,316</td> <td>Last 30 Days Ranking</td> <td colspan="2">Top 5%</td> </tr> <tr> <td colspan="6">Profile Link: https://muett.academia.edu/IrfanAhmedHalepoto</td> </tr> <tr> <td colspan="2">Web of Science Profile</td> <td colspan="4">https://www.webofscience.com/wos/author/record/M-4240-2014</td> </tr> <tr> <td colspan="2">Scopus Author ID</td> <td colspan="4">https://www.scopus.com/authid/detail.uri?authorId=56426541700</td> </tr> <tr> <td colspan="2">ORCID Profile</td> <td colspan="4">https://orcid.org/0000-0003-1623-981X</td> </tr> <tr> <td colspan="2">Semantic Scholar</td> <td colspan="4">https://www.semanticscholar.org/author/I.-A.-Halepoto/3044191</td> </tr> </table>	Research Publications						Journal Articles	39	Conference Papers	23	Book Chapter Proposals	3	Google Scholar:						Citation Score	517	h-index	12	i10-index	17	Profile Link: https://scholar.google.com.pk/citations?user=MdzlcokAAAAJ&hl=en&oi=ao						Research Gate:						Research Interest Score	608.8	Percentile Score	89%	Total Reads	64,303					Research Recommendations	650	Profile Link: https://www.researchgate.net/profile/Irfan-Halepoto						Academia:						Total Views	11,316		Last 30 Days Ranking	Top 5%		Profile Link: https://muett.academia.edu/IrfanAhmedHalepoto						Web of Science Profile		https://www.webofscience.com/wos/author/record/M-4240-2014				Scopus Author ID		https://www.scopus.com/authid/detail.uri?authorId=56426541700				ORCID Profile		https://orcid.org/0000-0003-1623-981X				Semantic Scholar		https://www.semanticscholar.org/author/I.-A.-Halepoto/3044191			
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Academic Contribution	<ul style="list-style-type: none"> 19 Years of teaching experience at Undergraduate level (6 years teaching experience under OBE and PBL) 16 Years of teaching experience at Postgraduate level. 7 Years post-Doctoral teaching experience. 																																																																																																
Research Supervision	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Students Status</td> <td style="width: 25%;">PhD Students</td> <td style="width: 25%;">Postgraduate Students</td> <td style="width: 25%;">Undergraduate Student Groups</td> </tr> <tr> <td>Students under Supervising</td> <td>02</td> <td>09</td> <td>01</td> </tr> <tr> <td>Students Supervised & Awarded Degrees</td> <td>00</td> <td>17</td> <td>15</td> </tr> </table>	Students Status	PhD Students	Postgraduate Students	Undergraduate Student Groups	Students under Supervising	02	09	01	Students Supervised & Awarded Degrees	00	17	15																																																																																				
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International Research Exposure	<ul style="list-style-type: none"> Guest PhD student at Department of Electronic Systems, Aalborg University Denmark for six months from August 2014 to January 2015. Visited Aalborg University Denmark from 20th March to 31st March 2023 as invited guest researcher. 																																																																																																
Technical Skills	Programming Languages: C/C++, MATLAB, Python Simulation Tools: Electronic Workbench, Multi SIM, SPICE, Power factory PSCAD, GAMS																																																																																																

ACADEMIC QUALIFICATIONS

Period	Institution	Degree	Field of Study	Research thesis
2012-2016	Mehran UET Jamshoro, Pakistan	PhD	Electronic Engineering	Design of Intelligent Demand Side Management System using Supervisory Control Strategies in Distributed Smart Grid
2004-2007	Mehran UET Jamshoro, Pakistan	M.E	Communication Systems and Networks	Performance issues of Linearization Techniques for RF Power Amplifier
2000-2004	Mehran UET Jamshoro, Pakistan	B.E	Electronic Engineering	A Telemedicine Application: Design & implementation of a Tele-Cardiologic system

PROFESSIONAL WORK EXPERIENCE

Designation	Serving Period	Organization Served	Job Description
Associate Professor	27-10-2016 To-date	Dept.: of Electronic Engineering, Mehran UET Jamshoro, Pakistan	Teaching and Research
Assistant Professor	10-10-2009 26-10-2016	Dept.: of Electronic Engineering, Mehran UET Jamshoro, Pakistan	Teaching and Research
Lecturer	14-09-2004 09-10-2009	Dept.: of Electronic Engineering, Mehran UET Jamshoro, Pakistan	Teaching, Research and Laboratory In charge

CONTRIBUTIONS AS A RESEARCHER

Publications in International Journals:

1. Masood Nazir Khoso, **Irfan Ahmed Halepoto**, Agha Mushtaque Ahmed. Enhancing Efficiency of Solar Heater Box with Linear Actuator for Maximizing Solarization. Preceding's of the Pakistan Academy Science of Sciences (Physical and Computational Sciences), Manuscript accepted for Publication.
2. Maryam Saeed, **Irfan Ahmed Halepoto**, Sania Khaskheli, Mehak Bushra. Optimization and efficiency analysis of deep learning based brain tumor detection. *Mehran University Research Journal of Engineering and Technology*, e-ISSN: 2413-7219, <https://doi.org/10.22581/muet1982.2302.19>, Vol. 42, No. 2, pp. 188-196, April, 2023.
3. Shehroze Mughal, Muhammad Arsalan Jalees Abro, **Irfan Ahmed Halepoto**, Mehran Muhammad Memon. Automobile Suspension Prediction Model Based on Neural Network and Grey Neural Network, *Journal of Applied Engineering & Technology*, e-ISSN: 2523-2924, DOI: <https://doi.org/10.55447/jaet.06.02.90>, Vol. 6, No. 2, pp. 53-62, December, 2022.
4. Munwar Ali Bhand, **Irfan Ahmed Halepoto**, Muhammad Arsalan Jalees Abro, Perm Singh Rajput, Ghulam Mustafa Shoro. Optimizing Economic Load Dispatch Problem using Genetic Algorithm: A Case Study of Thermal Power Station Jamshoro. *International Journal of Grid and Distributed generation*. e-ISSN: 2005-4262, DOI: <http://dx.doi.org/10.33832/ijgdc.2021.14.2.02>, July, 2021.
5. Ghulam Mustafa Shoro, **Irfan Ahmed Halepoto**, Muhammad Arsalan Jalees Abro, Fahad Iqbal, Munwar Ali Bhand. Design and Implementation of Low-Cost Automatic Transfer Switch with Interlocking Facility. *International Journal of future generation communication and networking*, e-ISSN: 2233-7857, DOI: [10.33832/ijfgcn.2021.14.2.03](https://doi.org/10.33832/ijfgcn.2021.14.2.03), Vol. 14, No. 2, pp. 31-40, June 2021.
6. Ghulam Mustafa Shoro, Perm Singh Rajput, Fahad Iqbal, Muhammad Arsalan Jalees Abro, Munwar Ali Bhand, **Irfan Ahmed Halepoto**. Design of UAV Autonomous Charging Pad for Surveillance. *Revista Geintec-Gestao Inovacao E Tecnologias*, e-ISSN: 2237-0722, DOI: <http://dx.doi.org/10.47059/revistageintec.v11i3.2030>, Vol. 11, No. 3, pp. 1552-1561, June, 2021.
7. **Irfan Ahmed Halepoto**, Ghulam Mustafa Shoro, Muhammad Arsalan Jalees Abro, Muhammad Ali Nizamani, Munwar Ali Bhand. Design, Development and Control of Gesture based Unmanned Vehicle. *International Journal of Contemporary Architecture "The New ARCH"*, e-ISSN: 2198-7688, Vol. 8, No. 2, pp. 542-551, May, 2021.

8. Mukhtiar Hussain Khowaja, **Irfan Ahmed Halepoto**, Shakeela Memon. Design and tuning of digital power line carrier to improve network line parameters at high voltage transmission lines. *3C Technolgia. Innovation glossaries applied to SMEs*. DOI: <http://dx.doi.org/10.17993/3ctecno.2019.specialissue3>. Pp. 167-183, November, 2019.
9. Abdullah Qazi, **Irfan Ahmed Halepoto**, Kamran Kazi. Optimal Balancing and Control of a Dynamic Load Demand in a Grid Connected Hybrid System using Feed-in Tariff Approach. *3C Technolgia. Innovation glossaries applied to SMEs*. DOI: <http://dx.doi.org/10.17993/3ctecno.2019.specialissue2>. Vol.8, No. 29, pp. 350–365, May, 2019.
10. Muhammad Arsalan Jalees Abro, Saifullah Samo, Dur Muhammad Pathan, **Irfan Ahmed Halepoto**. Novel Design and Modeling of Shutter Valves for Camless Engines. *3C Technolgia. Innovation glossaries applied to SMEs*. DOI: <http://dx.doi.org/10.17993/3ctecno.2019.specialissue2>. Vol.8, No. 29, pp. 518–533, May, 2019.
11. Sania Khaskheli, **Irfan Ahmed Halepoto**, Ayesha Khalid. Residential Community Micro Grid Load Scheduling and Management System Using Cooperative Game Theory. *3C Technolgia. Innovation glossaries applied to SMEs*. Doi: <http://dx.doi.org/10.17993/3ctecno.2019.specialissue2>. pp. 534–551, May, 2019.
12. Muhammad Arsalan Jalees Abro, **Irfan Ahmed Halepoto**. “Virtually Reactive Boxing based Action Reflector Suits for Real Time Sensation”, *Indian Journal of Science and Technology*, e-ISSN: 0974-5645, Vol. 11 (46), DOI: 10.17485/ijst/2018/v11i46/139719, December, 2018.
13. Muhammad Farrukh, **Irfan Ahmed Halepoto**, Bhawani Shankar Chowdhry, Hammadullah Kazi, and Bharat Lal. “Design and Implementation of PLC based Automatic Liquid Distillation System”, *Indian Journal of Science and Technology*, e-ISSN: 0974-5645, Vol. 10 (29), DOI: 10.17485/ijst/2017/v10i29/117368, August, 2017.
14. Saddam Hussain, Sonia Bibi, Farzana Rauf Abro, **Irfan Ahmed Halepoto**. “Methodology to Solve Severe Load Curtailment at Pakistan’s Wind Corridor and Cost Effectively Utilizing Maximum Wind Energy”, *Indian Journal of Science and Technology*, e-ISSN: 0974-5645, Vol. 10 (5), DOI: 10.17485/ijst/2017/v10i5/111271, February, 2017.
15. Mansoor Ahmed Soomro, Anwar Ali Sahito, **Irfan Ahmed Halepoto**, Kamran Kazi. “Single Tuned Harmonic Shunt Passive Filter Design for Suppressing Dominant Odd Order Harmonics in order to Improve Energy Efficiency”, *Indian Journal of Science and Technology*, e-ISSN: 0974-5645, Vol. 9 (47), DOI: 10.17485/ijst/2016/v9i47/108649, December, 2016.
16. **Irfan Ahmed Halepoto**, Anwar Ali Sahito, Mansoor Soomro, Sania Khaskheli, Bhawani Shankar Chowdhry. “Design and Modeling of Substation Time Critical Information Dissemination Model using Publisher subscriber Communication Service Mapping”, *Indian Journal of Science and Technology*, e-ISSN: 0974-5645, Vol. 9 (47), DOI:10.17485/ijst/2016/v9i47/108651, pp. 1-6, December, 2016.
17. Asadullah Rahoo, Abdullah Qazi, **Irfan Ahmed Halepoto**, Pirya Iohana, Ameet Kumar and Bushra Shaikh. “Design and Development of Hexapod using Nitinol Actuator Wire”, *Indian Journal of Science and Technology*, e-ISSN: 0974-5645, Vol 9 (47), DOI: 10.17485/ijst/2016/v9i47/108652, December, 2016.
18. Anwar Ali Sahito, Muhammad Azeem Arain, **Irfan Ahmed Halepoto**, Mansoor Ahmed Soomro, Muhammad Juman Jumani. “Analyzing the Impacts of Wind Generation on Distribution System Performance”, *Indian Journal of Science and Technology*, e-ISSN: 0974-5645, Vol 9(47), DOI: 10.17485/ijst/2016/v9i47/108653, December, 2016.
19. **Irfan Ahmed Halepoto**, Sania Khaskheli. “Modeling of an Integrated Energy Efficient Conveyor System Model using Belt Loading Dynamics”, *Indian Journal of Science and Technology*, e-ISSN: 0974-5645, Vol 9 (47), DOI: 10.17485/ijst/2016/v9i47/108658, December, 2016.
20. **Irfan Ahmed Halepoto**, Muhammad Zakir Shaikh, Bhawani Shankar Chowdhry, Muhammad Aslam Uqaili. “Design and Implementation of Intelligent Energy Efficient Conveyor System Model Based on Variable Speed Drive Control and Physical Modeling”, *International Journal of Control and Automation*, DOI: <http://dx.doi.org/10.14257/ijca.2016.9.6.36>, Vol.9, No.6, pp. 379-388, June, 2016.
21. **Irfan Ahmed Halepoto**, Farzana Rauf Abro, Ali Raza Chachar, Adeena. “Power Quality Assessment of Compact Fluorescent Lamps”, *Sindh University Research Journal (Science Series)*, e-ISSN: 2791-0547 Vol. 48, No.2, pp. 407-412, June, 2016.
22. **Irfan Ahmed Halepoto**, Farzana Rauf Abro, Ghulam Mustafa Shoro, Asif Ali Laghari. “Interpretation of Electric Charges Behaviour and Validation of Relativistic Charge Model in Special Relativity and Electromagnetism”, *Sindh University Research Journal (Science Series)*, e-ISSN: 2791-0547, Vol. 47, No.4, pp. 669-676, December, 2015.

23. Anwar Ali Sahito, **Irfan Ahmed Halepoto**, Muhammad Aslam Uqaili, Zubair Ahmed Memon, Abdul Sattar Larik, Mukhtiar Ahmed Mahar, "Analyzing the Impacts of Distributed Generation Integration on Distribution Network: A Corridor Towards Smart Grid Implementation in Pakistan", *Wireless Personal Communications*, Springer, DOI: <https://doi.org/10.1007/s11277-015-2754-y>, Vol. 85, No. 2, pp. 545-563, November, 2015.
24. **Irfan Ahmed Halepoto**, Farzana Rauf Abro, Mohammad Aslam Uqaili, Bhawani Shankar Chowdhry. "Design of Strategic Smart Grid Transformational Roadmap and Implementational Framework - SWOT Analysis of Pakistan Case" *Sindh University Research Journal (Science Series)*, e-ISSN: 2791-0547, Vol. 47, No.3 pp. 455-462, September, 2015.
25. Tayab Din Memon, Muhammad Aamir, **Irfan Ahmed Halepoto**, Chander Kumar Malhi. "Analysis of Interpolation Techniques for Optimal design of Short World Length Algorithms", *Mehran university research journal of engineering and technology*, e-ISSN: 2413-7219, Vol. 34, No. 1, pp. 53-62, August, 2015.
26. **Irfan Ahmed Halepoto**, Anwar Ali Sahito, Ghulam Mustafa Shoro. "Design of Integrated Analytical Process Framework for Smart City Transformation based on Strengths-Weaknesses-Opportunities-Threats Analysis", *Sindh University Research Journal (Science Series)*, e-ISSN: 2791-0547 Vol. 47, No. 2, pp. 221-230, June, 2015.
27. Mansoor Ahmed Soomro, **Irfan Ahmed Halepoto**, Anwar Ali Sahito. "Design of Six Pulse Bridge Multiplication Converter Model for Current Harmonic Elimination of Three Phase AC-DC Converter", *Mehran University Research Journal of Engineering and Technology*, e-ISSN: 2413-7219, Vol. 33, No. 4, pp. 476-484, October, 2014.
28. Wanod Kumar, **Irfan Ahmed Halepoto**, Imtiaz Hussain. "Performance Analysis of TDMA Protocol in a Femtocell Network", *Mehran university research journal of engineering and technology*, e-ISSN: 2413-7219, Vol. 33, No. 3, pp. 330-334, July, 2014.
29. Anwar Ali Sahito, **Irfan Ahmed Halepoto**, Shah Murad Tunio. "Application of Infrared Thermography in Power Distribution System", *Mehran University Research Journal of Engineering and Technology*, e-ISSN: 2413-7219, vol. 33, no. 3, pp. 352-358, July, 2014.
30. **Irfan Ahmed Halepoto**, Imtiaz Hussain, Wanod Kumar, Bhawani Shankar Chowdhry. "Performance Analysis of Conventional and Fuzzy Logic Controlled Automatic Voltage Regulator Systems in a Noisy Environment", *New Horizon" Journal of the institutions of Electrical & Electronics engineers Pakistan*, Vol. 81-82, No. 1, pp. 33-39, June, 2014.
31. **Irfan Ahmed Halepoto**, Muhammad Aslam Uqaili, Bhawani Shankar Chowdhry. "Least Square Regression Based Integrated Multi-Parametric Demand Modeling for Short Term Load Forecasting", *Mehran university research journal of engineering and technology*, e-ISSN: 2413-7219, Vol. 33, No. 2, pp.215-226, April, 2014.
32. Tufail Ahmed Waseer, **Irfan Ahmed Halepoto**, Muhammad Ali Joyo. "Quantifying the Q-Factor and Minimizing BER in 32-Channel DWDM System Design Using EDFA and RAMAN Amplifiers", *Mehran university research journal of engineering and technology*, e-ISSN: 2413-7219, Vol. 33, No. 1, pp. 1-8, January, 2014.
33. Shabana Channa, Tayab Din Memon, **Irfan Ahmed Halepoto**. "System Level Analysis and Performance Evaluation of Soft Switch Network in PTCL South Region", *Mehran university research journal of engineering and technology*, e-ISSN: 2413-7219, Vol. 32, No. 4, pp. 647-656, October, 2013.
34. Tayab Din Memon, **Irfan Ahmed Halepoto**, Ahmed Al-Otobi. "Realizing Ternary Logic in FPGAs for SWL DSP Systems", *Mehran University Research Journal of Engineering and Technology*, Vol. 32, No. 3, pp. 401-408, July, 2013.
35. Wanod Kumar, Pardeep Kumar, **Irfan Ahmed Halepoto**. "Performance Analysis of an Energy Efficient Femtocell Network Using Queuing Theory" *Mehran University Research Journal of Engineering and Technology*, e-ISSN: 2413-7219, Vol. 32, No. 3, pp. 535-542, July, 2013.
36. Imtiaz Hussain, **Irfan Ahmed Halepoto**, Wanod Kumar, Kamran Kazi. "Anti-Slip Traction Control of Railway Vehicle based on Estimated Wheel-Rail Contact Condition", *Sindh University Research Journal (Science Series)*, e-ISSN: 2791-0547 Vol. 45, No. 2, pp. 373-378, June, 2013.
37. **Irfan Ahmed Halepoto**, Wanod Kumar, Tayab Din Memon, Imdad Ali Ismaili. "Quantifying the effect of Look up Table size and coefficients Complexity for Non-Linearity compensation in Power Amplifiers", *Sindh University Research Journal (Science Series)*, e-ISSN: 2791-0547, Vol. 45, No. 2, pp. 447-452, June, 2013.
38. Tarique Rafique Memon, **Irfan Ahmed Halepoto**, Tayab Din Memon. "Embedded DAQ System Design for Temperature and Humidity Measurement", *Mehran University Research Journal of Engineering and Technology*, e-ISSN: 2413-7219, Vol. 32, No. 2, pp. 253-260, April, 2013.

- 39. Irfan Ahmed Halepoto**, Bhawani Shankar Chowdhry, Farzana Rauf Abro. "Implementation of DSL in Pakistan-Growth potential and BW impact-A technical report", *Mehran University Research Journal of Engineering and Technology*, e-ISSN: 2413-7219, Vol. 24, No. 3, pp. 221-232, July, 2005.

Contributions in International Conference Proceedings:

- 40. Irfan Ahmed Halepoto**, Ghulam Mustafa Shoro, Muhammad Arsalan Jalees Abro, Muhammad Ali Nizamani, Munwar Ali Bhand. Design, Development and Control of Gesture based Unmanned Vehicle. In Proceedings of *4th International Multi-Topic Conference on Engineering and Science (IMCES'21)*, Faculty of Information Technology, Universitas YARSI, Jakarta, Indonesia, <https://imces.tech>, 29-30 June, 2021.
- 41.** Munwar Ali Bhand, **Irfan Ahmed Halepoto**, Muhammad Arsalan Jalees Abro, Perm Singh Rajput, Ghulam Mustafa Shoro. Optimizing Economic Load Dispatch Problem using Genetic Algorithm: A Case Study of Thermal Power Station Jamshoro. In Proceedings of *4th International Multi-Topic Conference on Engineering and Science (IMCES'21)*, Faculty of Information Technology, Universitas YARSI, Jakarta, Indonesia, 29-30 June, 2021.
- 42.** Ghulam Mustafa Shoro, **Irfan Ahmed Halepoto**, Muhammad Arsalan Jalees Abro, Fahad Iqbal, Munwar Ali Bhand. Design and Implementation of Low-Cost Automatic Transfer Switch with Interlocking Facility. In Proceedings of *4th International Multi-Topic Conference on Engineering and Science (IMCES'21)*, Faculty of Information Technology, Universitas YARSI, Jakarta, Indonesia, <https://imces.tech>, 29-30 June, 2021.
- 43.** Ghulam Mustafa Shoro, Prem Singh Rajput, Fahad Iqbal, Muhammad Arsalan Jalees Abro, **Irfan Ahmed Halepoto**, Munwar Ali Bhand. Design of UAV Autonomous Charging Pad for Surveillance. In Proceedings of *4th International Multi-Topic Conference on Engineering and Science (IMCES'21)*, Faculty of Information Technology, Universitas YARSI, Jakarta, Indonesia, <https://imces.tech>, 29-30 June, 2021.
- 44.** Mukhtiar Hussain Khowaja, **Irfan Ahmed Halepoto**, Shakila Memon. Design and Tuning of digital power line carrier to improve network line parameters at high voltage transmission lines. In Proceedings of *5th International Conference on Green Computing and Engineering Technologies (IGCET'19)*, Casablanca, Morocco, <https://icgset.org>, 17 - 19 September, 2019.
- 45.** Abdullah Qazi, **Irfan Ahmed Halepoto**, Kamran Kazi. Optimal Balancing and Control of a Dynamic Load Demand in a Grid Connected Hybrid System using Feed-in Tariff Approach. In Proceedings of *2nd International Multi-Topic Conference on Engineering and Science (IMCES'19)*, Holiday Inn Mauritius Mon Tresor, Plaine Magnien, Mauritius, <https://imces.tech>, 05-07 May, 2019.
- 46.** Muhammad Arsalan Jalees Abro, Saifullah Samo, Dur Muhammad Pathan, **Irfan Ahmed Halepoto**. Novel Design and Modeling of Shutter Valves for Camless Engines. Novel Design and Modeling of Shutter Valves for Camless Engines. In Proceedings of *2nd International Multi-Topic Conference on Engineering and Science (IMCES'19)*, Holiday Inn Mauritius Mon Tresor, Plaine Magnien, Mauritius, <https://imces.tech>, 05-07 May 2019.
- 47.** Sania Khaskheli, **Irfan Ahmed Halepoto**, Ayesha Khalid. Residential Community Micro Grid Load Scheduling and Management System Using Cooperative Game Theory. In Proceedings of *2nd International Multi-Topic Conference on Engineering and Science (IMCES'19)*, Holiday Inn Mauritius Mon Tresor, Plaine Magnien, Mauritius, <https://imces.tech>, 05-07 May, 2019.
- 48.** Muhammad Arsalan Jalees Abro, **Irfan Ahmed Halepoto**. "Virtually Reactive Boxing Based Action Reflector Suits for Real Time Sensation. In Proceedings of *4th International Conference on Recent Trends in Computer Science and Electronics (RTCSE'19)*, University of Hawaii Honolulu, Hawaii, USA, <https://rtcse.org>, 03-06 January, 2019.
- 49.** Muhammad Farrukh, **Irfan Ahmed Halepoto**, Bhawani Shankar Chowdhry, Hameedullah Kazi, Bharat Lal. "Design and Implementation of PLC based Automatic Liquid Distillation System", In Proceeding of *3rd International Conference on Green Computing and Engineering Technologies (ICGCT'17)*, The Killaloe Hotel, Kincora Harbour, Killaloe, Ireland, <https://icgset.org>, 8-10 August, 2017.
- 50.** Saddam Hussain, Sonia Bibi, Farzana Rauf Abro, Irfan Ahmed Halepoto. "Methodology to Solve Severe Load Curtailment at Pakistan's Wind Corridor and Cost Effectively Utilizing Maximum Wind Energy", In Proceeding of *2nd International Conference on Recent Trends in Computer Science and Electronics (RTCSE'17)*, Kuala Lumpur, Malaysia, <https://rtcse.org>, 2-3 January, 2017.
- 51.** Mansoor Ahmed Soomro, Anwar Ali Sahito, **Irfan Ahmed Halepoto**, Kamran Kazi. "Single Tuned Harmonic Shunt Passive Filter Design for Suppressing Dominant Odd Order Harmonics in order to Improve Energy Efficiency", In Proceeding of *2nd International Conference on Recent Trends in Computer Science and Electronics (RTCSE'17)*, Kuala Lumpur, Malaysia, <https://rtcse.org>, 2-3 January, 2017.

52. **Irfan Ahmed Halepoto**, Anwar Ali Sahito, Mansoor Soomro, Sania Khaskheli, Bhawani Shankar Chowdhry. "Design and Modeling of Substation Time Critical Information Dissemination Model using Publisher subscriber Communication Service Mapping", In Proceeding of *2nd International Conference on Recent Trends in Computer Science and Electronics (RTCSE'17)*, Kuala Lumpur, Malaysia, <https://rtcse.org>, 2-3 January, 2017.
53. Asadullah Rahoo, Abdullah Qazi, **Irfan Ahmed Halepoto**, Pirya Iohana, Ameet Kumar and Bushra Shaikh. "Design and Development of Hexapod using Nitinol Actuator Wire", In Proceeding of *2nd International Conference on Recent Trends in Computer Science and Electronics (RTCSE'17)*, Kuala Lumpur, Malaysia, <https://rtcse.org>, 2-3 January, 2017.
54. Anwar Ali Sahito, Muhammad Azeem Arain, **Irfan Ahmed Halepoto**, Mansoor Ahmed Soomro, Muhammad Juman Jumani. "Analyzing the Impacts of Wind Generation on Distribution System Performance", In Proceeding of *2nd International Conference on Recent Trends in Computer Science and Electronics (RTCSE'17)*, Kuala Lumpur, Malaysia, <https://rtcse.org>, 2-3 January 2017,
55. **Irfan Ahmed Halepoto**, Sania Khaskheli. "Modeling of an Integrated Energy Efficient Conveyor System Model using Belt Loading Dynamics", In Proceeding of *2nd International Conference on Recent Trends in Computer Science and Electronics (RTCSE'17)*, Kuala Lumpur, Malaysia, <https://rtcse.org>, 2-3 January, 2017.
56. **Irfan Ahmed Halepoto**, Anwar Ali Sahito, Bhawani Shankar Chowdhry, Muhammad Aslam Uqaili, Tahir Riaz. "Multi-criteria Assessment of Smart City Transformation based on SWOT Analysis", In Proceeding of *IEEE 5th National Symposium on Information Technology: Towards New Smart World (NSITNSW'15)*, <https://ieeexplore.ieee.org>, DOI: , Riyadh, Saudi Arabia, 17-19th February, 2015.
57. Tayab Din Memon, Marvi Deshi, **Irfan Ahmed Halepoto**, Imtiaz Hussain Kalwar, Bhawani Shankar Chowdhry. "Optimization of Sigma-delta Modulation Based on Short World Length DSP Systems in FPGAs", In Proceeding of *4th International Multi-Topic Conference (IMTIC'15)*, Mehran UET Jamshoro, Pakistan, <https://imtic.mueta.edu.pk>, February 11-13, 2015.
58. Chander Kumar, Tayab Din Memon, **Irfan Ahmed Halepoto**, Bhawani Shankar Chowdhry. "Analysis of Interpolation Techniques for Optimal design of Short World Length Algorithms", In Proceeding of *4th International Multi-Topic Conference (IMTIC'15)*, Mehran UET Jamshoro, Pakistan, <https://imtic.mueta.edu.pk>, February 11-13, 2015.
59. **Irfan Ahmed Halepoto**, Muhammad Aslam Uqaili and Bhawani Shankar Chowdhry., "Implementation of Smart Grid for Sustainable Development-SWOT Analysis of Pakistan Case." In In Proceeding of *3rd International Conference on Energy, Environment and Sustainable Development (EESD'14)*, Mehran UET Jamshoro, Pakistan, <https://eesd.mueta.edu.pk>, Oct 22-24, 2014.
60. Muhammad Aslam Uqaili, Anwar Ali Sahito, **Irfan Ahmed Halepoto**, Zubair Ahmed Memon, Sada Bakhsh Dars. "Impact of Distributed Generation on Network Short Circuit Level", In Proceeding of *IEEE 4th International Conference on Wireless Communications, Vehicular Technology, Information Theory and Aerospace & Electronics Systems (VITAE)*, <https://ieeexplore.ieee.org>, DOI: , Aalborg, Denmark, 11- 14 May, 2014.
61. **Irfan Ahmed Halepoto**, Bhawani Shankar Chowdhry, Muhammad Aslam Uqaili. "SCADA Based Intelligent Management and Monitoring of Power Distribution", In Proceeding of *27th IEEE Multi-Topic International Symposium Conference*, 14-15 March 2012.
62. **Irfan Ahmed Halepoto**, Bhawani Shankar Chowdhry, Muhammad Aslam Uqaili. "Remote Monitoring & Intelligent Load Management System for Industrial Processing Plants through D-SCADA Networks", In Proceeding of *26th IEEE Multi-Topic International Symposium Conference 2011*, 16-17 March 2011.

CONTRIBUTIONS IN BOOK CHAPTERS:

1. **Irfan Ahmed Halepoto**, Muhammad Arsalan Jalees Abro, Amjad Ali, Mehran Muhammad Memon, Distributed energy storage systems for EV Charging Stations, in *Distributed Energy Storage System for Digital Power System* in Elsevier, (Book Chapter proposal is accepted for full length chapter proposal publication).
2. Amjad Ali, **Irfan Ahmed Halepoto**, Standards and Grid Code Requirements for Distributed Energy Storage System, in *Distributed Energy Storage System for Digital Power System* in Elsevier, (Book Chapter proposal is accepted for full length chapter proposal publication).
3. Muhammad Arsalan Jalees Abro, **Irfan Ahmed Halepoto**, Mehran Muhammad Memon, Amjad Ali, Application of IoT for Remote Monitoring and Control of Distributed Energy Storage Systems, in *Distributed*

Energy Storage System for Digital Power System in Elsevier, (Book Chapter proposal is accepted for full length chapter proposal publication).

CONTRIBUTIONS IN PRACTICAL LABORATORY BOOKS PUBLICATIONS:

1. **Irfan Ahmed Halepoto**, Engr. Farzana Rauf, “A practical book on Amplifiers & Oscillators, Publisher: Naseem Book Depot Hyderabad, ISBN: 969-8680-16-0, Latest edition 2018.
2. **Irfan Ahmed Halepoto**, Engr. Qurban Memon,” A practical book on Basic Electronics”, Publisher: Naseem Book Depot Hyderabad, ISBN: 969-8680-14-4, Latest edition 2019.

CONTRIBUTIONS TO AS ACEDMICIAN /TEACHER

Courses taught at PhD Level:

Power System Distribution Network	Research Methodology
Mathematical Modeling and Simulation	SCADA based System Design
Instrumentation and Systems	Real Time Computing and Embedded System

Courses taught at Postgraduate Level:

Power System Stability	Power Electronics and Drives
Sensors and Actuators	Electronic Instrumentation
IC Design and Manufacturing	Advanced Embedded System Design
Advanced Integrated Circuit design	Modern Trends in Electronic Systems Design

Courses taught at Undergraduate Level:

Power Electronics	Artificial Intelligence
Computer Programming and Languages	Mechatronics System Design and Applications
Embedded System Design	Electronic Circuit Design

CONTRIBUTIONS AS RESEARCH SUPERVISOR

Students Status	PhD Students	Postgraduate Students
Students under Supervising	02	09
Students Supervised and Awarded Degrees	00	17

PhD Scholars under Supervision:

S. No	Student Name	Research Title
1	Abdul Rauf Ghanghro	Design & Development of Smart Wearables Diabetics Prototype under 6 Months Infants
2	Arsalan Jalees Abro	Physical Modelling and Design of AI Controlled Black Box Model of Electric Vehicle

Postgraduate Students Supervised (Degree completed):

S. No	Student Name	Research Title	Degree Awarded
1	Maryam Saeed	Optimization and Efficiency analysis of Deep Learning based Brain Tumor Detection	2023
2	Masood Nazir Khoso	Development of Solar Heater Box with Linear Actuator for Disinfestation of Stored Grains	2023

3	Shehroze Mughal	Modelling of Automobile Vibration Prediction Model Based on Grey Neural Network	2023
4	Mahke Memon	Multi-Level Management and Control Strategies for Active Distribution Networks with Variable DG Penetration Level	2022
5	Mukhtiar Hussain Khowaja	Design and Analysis of Digital Power Line Carrier Model to improve Network Line Parameters at High Voltage Transmission Lines	2021
6	Sania Khaskheli	Multi-Agent Based Load Scheduling and Management System in A Residential Micro Grid Using Cooperative Game Theory	2020
7	Arsalan Jalees Abro	Modelling and Design of Shutter Valves for Camless Engines	2020
8	Abdullah Qazi	Optimal Balancing and Control of Dynamic Load Demand in a Grid Connected Hybrid System Using Demand Side Management Techniques	2020
9	Shayan Hussain Chohan	Design and Implementation of Utilities Integrated Resource Planning Through Intelligent Coordination of Electrical Network Resources	2019
10	Kush	Analysis and Integration of Distributed Renewable Resources in Micro grid-The Pakistan Prospective	2018
11	Atta-ur-Rehman Malik	Analyzing the Efficiency of network in migration from PSTN To Next Generation Networks	2018
12	Jawed Memon	Energy Management and Optimization with Strategic Demand Modeling & Load Scheduling Solutions	2016
13	Mudasar Latif Memon	Planning of Huawei MSAN & MSAG over Traditional Switches & ONUs in Optical Fiber Transmission Network of PTCL Hyderabad	2016
14	Kapil Dev Langhani	Optimization of Radio Frequency Link Budget for Pakistan Terrain	2015
15	Aamir Panhwar	Remote Sensing & GIS based Early Warning System Framework for Disaster Risk Minimization	2014
16	Tariq Rafique Memon	Implementation and Analysis of LAB-VIEW based Data Acquisition System for Humidity and Temperature Control	2014
17	Atta-ur-Rehman Shaikh	Monitoring Patient's vital sign through wireless sensor networks in e-health perspective	2013

Postgraduate Students under supervision:

S. No	Student Name	Research Title	Degree to be completed by
1	Fazila Mehwal	Modeling the Active Synchronization of Electricity Grid Devices and Sensitivity Analysis in Swarm Grid	2023
2	Raheela Zamir	Modeling and Analysis of DC Solar Microgrid Villages for Rural Electrification	2023
3	Ayesha Khalid	Development and Analysis of Pricing Mechanism for P2P Energy Trading in Distributed Transactive Energy Market	2023
4	Kahafulwara	Multi-Agent based Design of Reconfigurable Manufacturing System for Smart Factory Models using Industry 4.0	2023
5	Jotee Kumari	Modeling and Simulation of EVs Parametric Relations and Drive Profiles Under Dynamic Traffic Flow: A Pakistan Case	2023
6	Sajjad Hussain	Design and Modeling of AI based Energy Trading Strategies to improve the Uncertainties for Multi-objective Functions in Microgrids	2023
7	Muhammad Ahmed	Study and analysis of EVs thermal behavior for optimizing battery performance and life cycle: A Pakistan Case	2023
8	Maheen Kazi	Design and Performance analysis of Distributed Intelligence System for Flexible Smart Manufacturing	2024
9	Komal Talpur	Design and analysis of AI based 8C smart manufacturing model for optimal concurrent production	2024

CONTRIBUTIONS AS THESIS EXAMINER

PhD Examiner:

S. No	Scholar Name	Research Title
1	Khurram Shaikh	Development of Predictive Maintenance Strategy for Solid Axle Railway Wheel Set
2	Ali Akbar Shah	Super-Elevation based Railway track defects diagnosis of the railroad curves using structural lighting and axle box acceleration
3	Umair Abro	Enhance routing through optimization algorithm in multiple sinks based wireless sensor networks and wireless body area network
4	Imran Khan	Optimize data routing and storage node deployment for underwater acoustic communication
5	Rabia Rashdi	SMC Implementation on a Navio2 Raspberry Pi Quadcopter

Postgraduate Examiner:

S. No	Student Name	Title
1	Marvi Jamali	Design of a fluid level controller for a coupled tank system
2	Sanam Mahar	Improved Numerical Integrator for Simulation of Switched Reluctance Machine
3	Noorain Korai	Railway Track Condition Monitoring with ABA Methodology by using Smart IMU Sensors
4	Saira Parveen	Induction Motor fault detection and classification using IRT
5	Maida Memon	Performance analysis of multiple data discrete system through flow process
6	Zain Ali	Design and Analysis of Particle Swarm Optimization and its Variants Effectiveness for FIR Filter
7	Waleed Talpur	Matrix Geometric Analysis of Congestion System using Phase Type Distribution
8	Asfar Arain	Real Time Adaptability Test of Data Driven Models for Railway Track Surface Fault Identification
9	Ameet Kumar	Stochastic Analysis of SiOC on Insulator based Photonic Integrated Circuits
10	Murk Junejo	Fuzzy Logic based PID Auto Tuning method of QNET 2.0 VTOL
11	Amjad Abbasi	Self-tuned PID control of Inverted Pendulum
12	Bushra Ishfaq	Increasing network stability in wireless body area sensor network based on own transposition
13	Naeem Rahim	Outage and Capacity Analysis of Decode and Forward Relaying Network under Hybrid RF-VLC Channels
14	Waqas Laghari	Modelling of efficient underwater wireless communication using electromagnetic waves

FUNDED RESEARCH GRANTS

Research Project	Funding Agency	Organizing Agency	Project Amount	Project Period
Design & Implementation of Intelligent Energy Efficient Industrial Process Control System using Conveyor Belts via Robotic Arm	Pakistan Science Foundation	MUET, Jamshoro	Rs. 1.2 million	1st Feb 2014 to 10th Apr 2016

DETAILS OF AWARDS/MEDALS RECEIVED:

Award/ Medal/Distinction	Institute/Authority / Country	Date of Award / Medal / Distinction
Academic Excellence Award	Alumni Association of Mehran University of Engineering and Technology, Jamshoro, Pakistan.	24 th December, 2019
Best PhD Student- Project Idea	Ideal Excellence Award, Pakistan	21stSept, 2013

Membership and Global Activities Contribution Award	IEEE Karachi Section, Pakistan	3 rd January, 2012
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PROFESSIONAL MEMBERSHIP

Name of Bodies/ Councils/Organizations		Membership No.	Membership Status
Pakistan Engineering Council (PEC)		ELECTRO/7184	Lifetime Membership
IEEE (USA)		90512564	2008-till to date
IEEE, Karachi Section	Member IEEE Communication Society		January 2016- till to date
	Member IEEE Power and Energy Society		January 2016 - till to date
	Member IEEE Robotics and Automation Society		September 2019 - till to date

TECHNICAL AND PROFESSIONAL CONTRIBUTIONS

Journals Reviewer:

Sr. No.	Journal	ISSN
1	International Journal of Control and Automation	2005-4297
2	Indian Journal of Science and Technology	0974-6846
3	International Journal of Future Generation Communication and Networking	2233-7857
4	International Journal of Grid and Distributed Computing	2005-4262
5	Mehran University Research journal of Engineering & Technology	2413-7219
6	Sindh University Research Journal Science Series	1813-1743
7	Journal of Applied Engineering & Technology	2523-2924

Conferences Technical Contributions:

Sr. No.	Name of Conference	Location	dates	Role
1	International Conference on Emerging Technologies in Electronics, Computing and Communication (ICETECC'22)	Pakistan	7-9 December, 2022	TPC member, Session Chair, Reviewer
2	3rd International Conference on Computational Sciences and Technologies (INCCST'22)	Pakistan	17-19 February, 2022	Session Sectary, Reviewer
3	6th International Conference on Energy, Environment and Sustainable Development 2022 (EESD 2022)	Pakistan	17-19 January, 2022	Session Chair, Reviewer
4	2nd International Conference on Computational Sciences and Technologies (INCCST'20)	Pakistan	17-19 December, 2020	Reviewer
5	4 th International Multi-Topic Conference on Engineering and Science (IMCES)	Indonesia	29-30 June, 2020	TPC member, Reviewer
6	5 th International Conference on Green Computing and Engineering Technologies (IGCET'19)	Morocco	17-19 September, 2019	TPC member, Reviewer
7	2nd International Multi-Topic Conference on Engineering and Science (IMCES'19)	Mauritius	05-07 May, 2019	TPC member, Reviewer
8	4 th International Conference on Recent Trends in Computer Science and Electronics (RTCSE'19)	USA	03-06 January, 2019	TPC member, Reviewer
9	4 th International Conference on Green Computing and Engineering Technologies (IGCET'18)	Denmark	17-19 August, 2018	TPC member, Reviewer

10	3 rd International Conference on Recent Trends in Computer Science and Electronics (RTCSE'18)	Thailand	02-03 January, 2018	TPC member, Reviewer
11	3 rd International Conference on Green Computing and Engineering Technologies (ICGCET'17)	Ireland	08-10 August, 2017	TPC member, Reviewer
12	2 nd International Conference on Recent Trends in Computer Science and Electronics Engineering (RTCSE'17)	Malaysia	02-03 January, 2017	TPC member, Reviewer
13	2 nd International Conference on Green Computing and Engineering Technologies, (ICGCET'16)	Denmark	18-20 August, 2016	PC member/ Reviewer
14	1 st International Conference on Recent Trends in Computer Science and Electronics Engineering (RTCSE'16)	Malaysia	02-03 January, 2017	PC member/ Reviewer
15	1 st International Conference on Green Computing and Engineering Technologies, (ICGCET'15)	Denmark	25-26 July, 2015	PC member/ Reviewer
16	4 th International Multi-topic Conference 2015 (IMTIC'15)	Pakistan	11-13 February, 2015	Reviewer
17	3 rd International Multi-topic Conference 2013 (IMTIC'13)	Pakistan	18-20 December, 2013	Reviewer
18	1 st International Conference on Wireless Sensor Networks for Developing Countries (WSN4DC'13)	Pakistan and Spain	24-26 April 2013	Reviewer
19	2 nd International Multi-topic Conference 2012 (IMTIC'12)	Pakistan	28-30 March, 2012	Reviewer

Invited Keynote Speaker:

S.No	Event	Location	Dates	Topic of Talk
1	Industry-Academia Collaboration	RASTEK Technology, Karachi, Pakistan	18 th January, 2023	The way forward for Industry-Academia Collaboration
2	38 th IEEE Multi-Topic International Symposium	PC Hotel, Karachi, Pakistan	23 rd March, 2022	Sustainable Energy solutions for Pakistan
3	38 th IEEE All Pakistan Students' Seminar	DHA SUFFA University, Karachi, Pakistan	22 nd February, 2022	Microgrids and its Challenges in Pakistan
4	IEEE Day	Dawood University of Engineering & Technology, Karachi Pakistan	5 th October, 2021	Role of AI in Technology Convergence
5	IEEE Day	Dawood University of Engineering & Technology, Karachi Pakistan	6 th October, 2021	How has Technology influenced our life?
6	IEEE Dialogue	Mehran UET, Jamshoro, Pakistan	10 Jan, 2019	SCADA for Industrial Applications
7	All Pakistan Electrical Symposium	UET, Lahore, Pakistan.	5-7 th Oct, 2018	Industrial Internet of Things

COURSES /LECTURES/WEBINAR CONDUCTED:

S. No	Event	Location	Dates	Topic
1	CPD Course	Mehran UET, Jamshoro, Pakistan	22 nd Sept, 2022	PLC Programming for Industrial Applications

2	Guest Lecture Series	Mehran UET, Jamshoro, Pakistan	30 th August, 2022	Recruitment in Industries
3	Webinar	Mehran UET, Jamshoro, Pakistan	16 th February, 2022	Academic Writing Techniques, Strategies and Plagiarism
4	Webinar	Mehran UET, Jamshoro, Pakistan	17 th November March, 2021	Mendeley: A Reference Management Tool

CONTRIBUTION AT ACADEMIC FORUMS AND COMMITTEES:

Participation in Academic Forums at Other Universities:

S. No	Academic Role	Name of Institute
1	Member, National Curriculum Review Committee	Pakistan Engineering Council
2	Observing Member, Accreditation Committee	Pakistan Engineering Council
3	Expert Member, Selection Board	Department of Electronic Engineering, Dawood University of Engineering & Technology, Karachi, Pakistan
4	Expert Member, Selection Board	Department of Electronic Engineering, Quaid-E-Awam University of Engineering, Science & Technology Nawabshah, Pakistan
5	Member, Board of Studies	Department of Electronic Engineering, University of Sindh Jamshoro, Pakistan
6	Member, Board of Studies	Department of Electronic Engineering, Dawood University of Engineering & Technology, Karachi, Pakistan
7	Member, Board of Studies	Department of Telecommunication Engineering, Dawood University of Engineering & Technology, Karachi Pakistan
8	Member, Board of Studies	Department of Electronic Engineering, Quaid-E-Awam University of Engineering, Science & Technology Nawabshah, Pakistan
9	Member, Board of Studies	Department of Electrical Engineering, Indus University, Karachi, Pakistan
10	Member, Post Graduate Program Review Committee	Post Graduate Programs, Dawood University of Engineering & Technology, Karachi, Pakistan
11	Member, Post Graduate Program Review Committee	Post Graduate Programs, Quaid-E-Awam University of Engineering, Science & Technology Nawabshah, Pakistan

Administrative Duties at Serving University:

S. No	Role	Responsibilities
1	Member, Senate of the Mehran University of Engineering and Technology, Jamshoro	<ul style="list-style-type: none"> To consider and pass the university status as per university act. To consider and approval the annual report, the statement of accounts, and the annual and revised budget estimates. To appoint the members to the authorities in accordance with the provision of university act. To delegate any of its power to an authority, officer or committee or sub-committee. To perform such other functions as may be prescribe by university statutes.
2	Member, University Quality Enhancement Cell Self-Assessment Practices	<ul style="list-style-type: none"> To assess the progress and performance of all the undergraduate departments of university to meet the minimum criteria of Higher Education Commission in order to be internationally compatible.

3	Member, Board of Faculty of Electronics, Electrical and Computer Engineering	<ul style="list-style-type: none"> To discuss and approve the academic matters including degree programs, courses contents, academic plans etc.
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Administrative Duties at Department Level:

S. No	Role	Responsibilities
1	Member, Departmental Board of Studies	<ul style="list-style-type: none"> To advise the authorities on all academic matters concerned with instruction, publication, research and examination in the subject or subjects concerned. To propose curriculum and syllabus for all degrees, diploma and certificate courses in the subject or concerned. To suggest a panel of names of paper setters and examiners subjects concerned. To perform such other functions as may be assigned to them by the statutes or regulations
2	Member, Departmental OBE Committee	<ul style="list-style-type: none"> To design the OBE based structure of the program curriculum and activities to be presented to Board of Study and further competent forums for review and approval.
3	Convener, Departmental Industrial Liaison Committee	<ul style="list-style-type: none"> To manage Industrial internships and study tours. To manage on- campus Job recruitment drives. To conduct continuous, professional development courses. To organize Seminars, Trainings, Conferences etc.
4	Member, Industrial Advisory Board	<ul style="list-style-type: none"> To maintain close interaction between Industry and Academia for involvement of the industry stakeholders in the designing, reviewing the PEOs of department To revise the program curriculum and activities whenever needed to make sure the graduates have adequate knowledge, skills, and attitude as per industry and market requirements.
5	Convener, Departmental Examination Committee	<ul style="list-style-type: none"> To smoothly conduct all types of examinations
6	Class Counsellor	<ul style="list-style-type: none"> To counsel the students on various matters as per guidelines of Pakistan Engineering Council including academic problems, career related matters, assistance in managing their health, stress, emotional and spiritual problems, and financial support.
7	Class Advisor	<ul style="list-style-type: none"> To give basic career counselling to the students To resolve class / lab problem of students To arrange study visit and industrial tours To resolve small petty internal conflicts.
8	Member, Course Equivalency Committee	<ul style="list-style-type: none"> To review and recommend the subjects/courses equivalency in case of exchange programs, migration etc.
9	Member, Examination Result Scrutiny Committee	<ul style="list-style-type: none"> To review and scrutinize any discrepancy in exam results
10	Member, Departmental Disciplinary Committee	<ul style="list-style-type: none"> To resolve any conflicts between various student groups To recommend punishment/penalty in case if there is no patch up.

Professional Bodies and Councils Served:

Sr. No.	Name of Bodies/Councils	Position served	Period
1	IEEE –Mehran UET Student Chapter	Branch Counselor	September 2019 to August 2021
2	IEEE – Mehran UET Student Chapter	Branch Counselor	January 2016 to till to January 2018
3	IEEE – Mehran UET Student Chapter	Branch Mentor	August 2008 to January 2016

4	IEEE-Karachi Section, Pakistan	Treasurer, IEEE Communication Society, Karachi Section,	August 2011 to August 2012
5	IEEE-Karachi Section, Pakistan	Chair, Membership Development Committee	June 2010 to July 2011

REFERENCES:

1. Prof. Dr. Bhawani Shankar Chowdhry

Professor Emeritus, Department of Electronics Engineering,
Mehran University of Engineering and Technology, Jamshoro
Email: bhawani.chowdhry@faculty.muett.edu.pk

2. Prof. Dr. Mukhtiar Ali Unar

Dean Faculty of Electrical, Electronic & Computer Engineering,
Mehran University of Engineering and Technology, Jamshoro.
Email: mukhtiar.unar@faculty.muett.edu.pk

3. Prof. Dr. Wajiha Shah

Professor, Department of Electronics Engineering,
Mehran University of Engineering and Technology, Jamshoro.
Email: wajiha.shah@faculty.muett.edu.pk