

DR. ASIM MUSHTAQ



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Objective: Polymer & Petrochemical Engineering has revolutionized human civilization at a staggering pace. With each new discovery and exploration scientists and researchers are pushing back the limits of the unknown. Rigorous efforts aimed at modifying and improving chemical processes and engineering of more useful materials offer new horizons to all who dare to endeavor. In wake of the developments in this area, I am engage in research work in the field of Chemical Engineering with my emphasis on Petrochemical, Polymer and Environmental.

Academic Qualification

Education	Year	Institution	Division
PhD (Chem.)	2018	Universiti Teknologi PETRONAS	Pass
M.E (Envir.)	2007	N.E.D University of Engineering and Technology	3.15 CGPA
B.E (Chem.)	2002	N.E.D University of Engineering and Technology	First Division 5 th Position
F.Sc. (Engg.)	1995	Islamia Government Science College	First Division
Matric (Sci.)	1992	Gulshan Cambridge School	First Division

B.E Project Title: Designing and processing of wastewater treatment by an Activated Sludge Process with in Environmental Aspects.

PhD Thesis Title: MUSHTAQ, A. (2018). *DEVELOPMENT OF ENHANCED POLYMERIC BLEND MEMBRANE FOR REMOVAL OF CARBON DIOXIDE FROM METHANE* (Doctoral dissertation, Universiti Teknologi PETRONAS).

URI: <http://utpedia.utp.edu.my/id/eprint/18989>

Working Experience

NED University of Engineering & Technology, Karachi, Pakistan. **2020 to Present**

NED University of Engineering & Technology, Karachi, Pakistan. **2008 to 2020**

Assistant Professor / Associate Professor

Appointed as Assistant Professor and Associate Professor in the Department of Polymer and Petrochemical Engineering.

- Developed course plans that met varied industrial needs, evaluated and assessed student development, and implemented study methodologies to enhance student's progress.
- Utilized varied teaching techniques to meet the needs of visual, kinesthetic and auditory learners for all subject areas.
- Identified areas of difficulty and prepared lessons to assist students in overcoming them.
- Set high expectations for student behavior, maintaining standards through classroom management techniques and positive reinforcement, resulting in increased positive student behavior and learning, emphasizing respect for all.
- Conducted classroom and lab instruction in Chemical and Petrochemical Engineering.
- Designed and implemented lessons involving multimedia.
- Designed classroom presentations to meet students' needs and abilities.
- Used reading recovery strategies with students, which enabled them to excel their reading ability and move up into a higher level of reading.
- Handled lecturing responsibilities successfully.
- Arranging class schedules for whole academic year.
- Manage scholarships and evaluate the deserving students.
- Design practical manual for the laboratories.
- Conduct practical with demonstration at laboratories of the corresponding courses.
- Arrange lectures from industrial professionals.
 - 4-years working in the **Bosicor Pakistan Limited Oil Refinery.**
 - 17-months working in the **Chemical Formaldehyde Plant in Standard Board (Pvt.) Limited** as a **Shift Incharge.**
 - Four weeks internship at **Pakistan Steel.**
 - Four weeks internship at **BASF Pakistan Limited**
 - Five weeks internship at **Pakistan Refinery Limited.**
 - Six weeks internship at **Pakistan State Oil Limited.**

Training

1. Topic: *Effective Teaching Techniques*
Held at: NED University of Engineering & Technology, Karachi. January 2008.
Duration: 15 days
2. Topic: *Duties and responsibilities of Invigilator*
Held at: NED University of Engineering & Technology, Karachi. September 2009.
Duration: 01 day
3. Topic: *Safety in Handling Laboratory Chemicals*
Held at: NED University of Engineering & Technology, Karachi. October 2009.
Duration: 03 days
4. Topic: *Duties and responsibilities of class advisor*
Held at: NED University of Engineering & Technology, Karachi. April 2010.
5. Topic: *Presentation and Communication Skills*
Held at: NED University of Engineering & Technology, Karachi. May 2010.

Teaching Experience

More than 14 years teaching experience at under-graduate level.

- Introduction to Polymer and Petrochemical Engineering
- Polymer and Petrochemical
- Process Equipment Design
- Fuel and Combustion
- Environmental Pollution Control
- Environmental Engineering
- Chemical Process Industry
- Analytical Chemistry
- Final Year Projects

HEC approved Ph.D supervisor supervise the Ph.D candidate in Chemical Engineering Department.

Seminars / Conferences / Symposia / Lectures / Workshops attended

1. Workshop on UASB Technology held on June 25, 2005 under Cleaner Technology Program (CTP).
2. 18th National Chemistry Conference held on 25th-27th Feb, 2008 in Institute of Chemistry, University of Panjab, Lahore.

3. 7th International Seminar on “Occupational Health Safety & Environment” on 1st and 2nd Oct, 2010.
4. Short Course on Activated Carbons & their Environmental Applications conducted from 13th -14th Dec, 2010 at Pakistan Institute of Engineering and Applied Sciences.
5. Pakistan & Regional Energy Forum.
6. Hydrogen Technologies – Market presentations at NED UET.
7. Air quality and global warming workshop at NED UET.
8. Bio-diesel Alternative fuel for the present and future at NED UET.
9. Technological advances for treating oily production at NED UET.
10. Training project Autodynamics Refinery Simulator 12th to 17th Sep, 2011.
11. Training project Autodynamics Fertilizer Simulator 19th to 23rd Sep, 2011.
12. Work shop on “Air pollution Modelling: Fate of Air Pollutants in the Atmosphere” (19-22 March, 2012).
13. 2nd International Conference on Chemical Science and Engineering (ICCSE 2013) held on 29-30 Dec, 2013 at Kuala Lumpur, Malaysia.
14. The 3rd International Conference on Process Engineering and Advanced Materials (ICPEAM 2014) held on 3-5 June, 2014 at Kuala Lumpur Convention Centre, Malaysia.
15. National Chemical Engineering Symposium (NACES) 2014 contribution as Judge held on 28-30 Nov, 2014 at Universiti Teknologi PETRONAS.
16. Lecture on “Outcome Based Education for Technologist and Graduate Assistant” on 20th Aug, 2015 at Universiti Teknologi PETRONAS.
17. Lecture on “Driving Safety and Regulations” on 4th Aug, 2016 at Universiti Teknologi PETRONAS.
18. International Conference on Process Engineering and Advanced Materials (ICPEAM 2016) held on 15-17 Aug, 2016 at Kuala Lumpur Convention Centre, Malaysia.
19. Talk series 2020 "**Navigating to the New Normal: Rethinking the Role of Energy towards Global Sustainability**", organized by Atma Jaya Catholic University of Indonesia (AJCUI) and Universiti Teknologi Petronas (UTP) Malaysia.
20. Virtual Workshop on Systematic Design and Techno-Economic Evaluation of Advanced Heat-to-Cooling Systems - District Cooling Applications Organized online on Monday, May 31, 2021, from 09:00 AM to 11:30 AM, Texas A&M University at Qatar, Centre for Research and Technology-Hellas, Marafeq Qatar and Qatar National Research Fund through grant number NPRP10-1215-160030 “Create the awareness for absorption refrigeration system for Qatari district cooling systems”.
21. UTP Energising Futures Webinar Series: "Future Playbook of Complementary University-Industry Linkages" **15th December 2021** MYT (GMT+8) 4:00pm -6:00pm, CET (GMT+1) 9:00am-11:00am.

22. UTP Energising Futures Webinar Series: "Future Playbook of Complementary University-Industry Linkages" **22th February 2022** MYT (GMT+8) 2:00pm - 4:00pm, CET (GMT+1) 9:00am-11:00am.

Project supervise for Undergraduate Final Year Students

- Reduction of energy cost over a distillation column.
- LPG recovery from off gases and fuel refinery.
- Process and design study of ethylene unit based LPG.
- Production of sodium hydroxide.
- Production of polyvinyl chloride.
- Effect of rice-husk on mechanical properties of low density polyethylene.
- Comparison study between the properties of kerosene naphthalene blend with turpentine.
- Novel poly (vinyl alcohol) nanofiltration membrane modified with dopamine coated anatase TiO₂ core shell nanoparticles.
- Fabrication, characterization and performance evaluation of crosslinked PVA/TiO₂/carbon black nanocomposite membrane for textile wastewater treatment.

PUBLICATIONS:

BOOK CHAPTER

1. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, "Separation Processes and Membranes, Thermodynamics" Process and Advanced Materials Engineering (Book section) vol. 265: 704-708, ISBN: 978-3-03835-181-82040-7459; © Trans Tech Publication, 2014.

INDEX JOURNALS

1. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, "A Review: Development of Polymeric Blend Membrane for Removal of CO₂ from Natural Gas" International Journal of Engineering and Technology IJET- ISSN: 09754024 IJENS Vol: 13 No: 02, 2013. (Impact Factor: 1.819)
2. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, "A Review: Fabrication of Enhanced Polymeric Blend Membrane with Amines for Removal of CO₂ from Natural Gas" International Journal of Emerging Technology and Advanced Engineering ISSN 2250-2459 Volume 3, Issue 6, 2013. (Impact Factor: 0.819)
3. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, "Blending Behaviour of Polysulfone, Polyvinyl Acetate and Amines in Dimethyl Acetamide Solvent" Research Journal of Applied Sciences, Engineering, and

- Technology 7(8): 1634-1641, 2014 ISSN: 2040-7459; e-ISSN: 2040-7467, 2014. (Impact Factor: 0.654)
4. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, "FTIR Study of Enhanced Polymeric Blend Membrane with Amines" Research Journal of Applied Sciences, Engineering and Technology 7(9): 1811-1820, ISSN: 2040-7459; e-ISSN: 2040-7467, 2014. (Impact Factor: 0.654)
 5. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, "Blending Behaviour of Polymeric Materials and Amines in Different Solvents" International Journal of Chemical Engineering and Applications, Vol. 5, No. 2, 2014.
 6. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, "Fabrication and Characterization of Synthesized Polysulfone/Polyvinyl acetate Blend Membranes" Research Journal of Applied Sciences, Engineering, and Technology 7(15): 3094-3106, 2014 ISSN: 2040-7459; e-ISSN: 2040-7467, 2014. (Impact Factor: 0.654)
 7. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, "Gas Permeability Study of Amine-Polymer Blend Membranes to Separate Carbon dioxide From Natural Gas" Applied Mechanics and Materials Vol. 625 (2014) pp 704-708. Online available since 2014/Sep/12 at www.scientific.net ©, 2014 doi:10.4028/www.scientific.net/AMM.625.704. (Impact Factor: 0.196)
 8. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, "Gas Permeability and Selectivity of Synthesized Diethanol Amine-Polysulfone/Polyvinyl acetate Blend Membranes" Research Journal of Applied Sciences, Engineering and Technology 8(5): 600-605, ISSN: 2040-7459; e-ISSN: 2040-7467, 2014. (Impact Factor: 0.654)
 9. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, "Advanced Development and Characterization of DEA Amine-Polysulfone/Polyvinylacetate Blend Membranes" Research Journal of Applied Sciences, Engineering and Technology 8(10): 1201-1211, ISSN: 2040-7459; e-ISSN: 2040-7467, 2014. (Impact Factor: 0.654)
 10. **Asim Mushtaq***, Hilmi Bin Mukhtar, and Azmi Mohd Shariff. "Effect of Glass Transition Temperature in Enhanced Polymeric Blend Membranes." Procedia Engineering 148 (2016): 11-17. (Impact Factor: 0.254)
 11. Mannan, Hafiz A., Hilmi Mukhtar, Thanabalan Murugesan, Rizwan Nasir, Dzeti F. Mohshim, and **Asim Mushtaq**. "Recent applications of polymer blends in gas separation membranes." Chemical Engineering and Technology Volume 36, No. 11 (2013): 1838-1846. (Impact Factor: 1.254).

12. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, “Effect of MEA towards Performance of Polysulfone/Polyvinyl acetate Blend Membranes” Bulgarian Chemical Communications Volume 50, No. 04 (2018): 584-591.(Impact Factor: 0.238).
13. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, “Synthesis and Characterization of Polymeric Blend Membranes Enhanced by Monoethanolamine for CO₂/CH₄ Separation” Bulgarian Chemical Communications Volume 50, No. 04 (2018): 575-583. (Impact Factor: 0.238).
14. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, “Solubility Parameter Study of Polysulfone, Polyvinyl Acetate in Dimethylacetamide Solvent” Journal of the Chemical Society of Pakistan, Volume 41, No. 01, (2019): 203-206.
15. **Asim Mushtaq***, Nabiha Syed, Amina Israr, Muhammad Taqi, Syed Muhammad Umair, Asad Munir Khan, Muhammad Abdullah, “Developing Enhanced Bitumen Using Low-Density Polyethylene and Styrene-Butadiene-Styrene Polymers” Science International-Lahore, Volume 31, No. 02, (2019): 229-234. (Impact Factor: 1.81).
16. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, “Properties and Characteristic of Amine-Polymer Blend Membrane” Journal of the Chemical Society of Pakistan, Volume 41, No. 02, (2019): 230-239.
17. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, “Performance of Enhanced Polymeric Blend Membranes for the separation of CO₂/CH₄ mixtures” Afinidad, Volume 76, No. 586, (2019): 70-75.
18. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, “Performance Enhancement of Polymeric Blend Membranes Incorporation of Methyl Diethanol amine for CO₂/CH₄ Separation” Journal of the Chemical Society of Pakistan, Manuscript No: JCSP-281217-11749 Volume 41, No. 03, (2019): 523-530.
19. Ahmed Ullah, **Asim Mushtaq***, Rizwan Ahmed Qamar, Zaeem Uddin Ali “Statistical Study for Conversion of Glucose to High Fructose Corn Syrup” Science International-Lahore, Volume 31, No. 03, (2019): 403-420. (Impact Factor: 1.81).
20. Ahmed Ullah, **Asim Mushtaq***, Rizwan Ahmed Qamar, Zaeem Uddin Ali “Study of Facility Design for Conversion of Glucose to High Fructose Corn Syrup” Science International-Lahore, Volume 31, No. 03, (2019): 465-472. (Impact Factor: 1.81).

21. Ahmed Ullah, **Asim Mushtaq***, Rizwan Ahmed Qamar, Zaeem Uddin Ali “Waste Heat Recovery from Stack Gases in a Cement Plant” Science International-Lahore, Volume 31, No. 04, (2019): 555-567. (Impact Factor: 1.81).
22. Ahmed Ullah, **Asim Mushtaq***, Rizwan Ahmed Qamar, Zaeem Uddin Ali “Replacement of Fossil Fuels by Refused Derived Fuel at Cement Plant” Science International-Lahore, Volume 31, No. 04, (2019): 587-602. (Impact Factor: 1.81).
23. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, “Modelling for Gas Transport in Enhanced Polymeric Blend Membrane” Journal of the Chemical Society of Pakistan, Volume 41, No. 04, (2019): 613-632.
24. Rizwan Ahmed Qamar, **Asim Mushtaq***, Ahmed Ullah, Zaeem Uddin Ali “PRODUCTION OF PARA-XYLENE VIA ISOMERIZATION” Science International-Lahore, Volume 31, No. 05, (2019): 663-682. (Impact Factor: 1.81).
25. Rizwan Ahmed Qamar, **Asim Mushtaq***, Ahmed Ullah, Zaeem Uddin Ali “PRODUCTION OF FUEL GRADE ETHANOL FROM CELLULOSE USING ASPEN PLUS- SIMULATION” Science International-Lahore, Volume 31, No. 05, (2019): 683-694. (Impact Factor: 1.81).
26. Raza Muhammad Khan, **Asim Mushtaq***, Amina Israr and, Asra Nafees “Comparative Study for Melt Flow Index of Different Microstructure Polyethylene” Pakistan Journal of Engineering and Applied Sciences, Volume 25, No. 2, (2019): 18–25.
27. Rizwan Ahmed Qamar, **Asim Mushtaq***, Ahmed Ullah, Zaeem Uddin Ali “ELECTROCHEMICAL CONVERSION OF CARBON DIOXIDE TO DIFFERENT HYDRO CARBONS” Science International-Lahore, Volume 31, No. 06, (2019): 869-883. (Impact Factor: 1.81).
28. Ahmed Ullah, **Asim Mushtaq***, Rizwan Ahmed Qamar, Zaeem Uddin Ali “DEVELOPMENT OF ENHANCED PIEZOELECTRICITY” Science International-Lahore, Volume 31, No. 06, (2019): 933-941. (Impact Factor: 1.81).
29. Rizwan Ahmed Qamar, **Asim Mushtaq***, Ahmed Ullah, Zaeem Uddin Ali “TURBINE-POWERED AIR WATER GENERATOR” Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, Volume 64, No. 01, (2019): 43-62.

30. **Asim Mushtaq***, Ahmed Ullah, Rizwan Ahmed Qamar, Zaeem Uddin Ali “Carbon Capture Process From Cement Industry” Science International-Lahore, Volume 32, No. 01, (2020): 75-88. (Impact Factor: 1.81).
31. Ahmed Ullah, **Asim Mushtaq***, Rizwan Ahmed Qamar, Zaeem Uddin Ali “Designing of Advanced Solar Absorption Chilling Unit” International Journal of Engineering and Technology (UAE), Volume 09, No. 02, (2020): 284-298.
32. Ahmed Ullah, **Asim Mushtaq***, Zaeem Uddin Ali, Rizwan Ahmed Qamar, Ahmed ul Bari, Hashir Izhar, Hussain Ahmed, Sameer Ahmed “Spatially Constrained Treatment of Raw Sewage to Produce Water for Domestic Use” Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, Volume 67, No. 01, (2020): 66-92.
33. Rizwan Ahmed Qamar, **Asim Mushtaq***, Ahmed Ullah, Zaeem Uddin Ali “Aspen HYSYS Simulation of CO₂ Capture for the Best Amine Solvent” Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, Volume 68, No. 02, (2020): 124-144.
34. **Asim Mushtaq***, Amina Israr, Muhammed Fahad and Jawwad Ahmed, “Mechanical Analysis of Additively Manufactured Poly (Lactic Acid) in Fused Deposition Modelling” Bulgarian Chemical Communications, Volume 52, No. 01, (2020): 29-46.
35. Raza Muhammad Khan, **Asim Mushtaq***, Zaeem Uddin Ali, Sindhia Abbasi, Roheen Naeem Lodhi, Syed Muhammad ul Haq, Syed Atif Shakeel “Development and Characterization of Walnut Shell and Date Seeds Powder in Low Density Polyethylene” Bulgarian Chemical Communications, Volume 52, No. 01, (2020): 90-97.
36. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, “Recent Development of Enhanced Polymeric Blend Membranes in Gas Separation: A Review” Journal of the Chemical Society of Pakistan, Volume 42, No. 02, (2020): 282-304.
37. Rizwan Ahmed Qamar, **Asim Mushtaq***, Ahmed Ullah, Zaeem Uddin Ali “Designing of Underground Coal Gasification Unit” Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, Volume 71, No. 02, (2020): 103-133.
38. Rizwan Ahmed Qamar, **Asim Mushtaq***, Ahmed Ullah, Zaeem Uddin Ali “Simulation of Liquefied Petroleum Gas Recovery From Off Gases In A Fuel Oil Refinery” Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, Volume 73, No. 01, (2020): 109-130.

39. Ahmed Ullah, **Asim Mushtaq***, Rizwan Ahmed Qamar, Zaeem Uddin Ali “Optimization of Organic Waste Biogas Reactor” Bulgarian Chemical Communications, Volume 52, No. 02, (2020): 214-229.
40. Rizwan Ahmed Qamar, **Asim Mushtaq***, Ahmed Ullah, Zaeem Uddin Ali “Simulation of Ammonia Looping Dissociation and Formation for Energy Conversion” Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, Volume 74, No. 01, (2020): 165-188.
41. Ahmed Ullah, **Asim Mushtaq***, Rizwan Ahmed Qamar, Zaeem Uddin Ali “Biogas Processing by Anaerobic Digestion of Organic Solid Waste” Pakistan Journal of Engineering and Applied Sciences, Volume 28, No. 01, (2021): 1-13.
42. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, “Characterization of Synthesized Polymeric Blend Membranes Enhanced by Methyl diethanolamine for efficient CO₂ Separation” Journal of Thermal Engineering, Volume 7. No. 2, Special Issue 13 February (2021): 71-82.
43. Ahmed Ullah, **Asim Mushtaq***, Rizwan Ahmed Qamar, Zaeem Uddin Ali “Performance Analysis and Modeling of Parabolic Trough Based Concentrated Solar Facility Using Different Thermal Fluid Mediums” Journal of Engineering Research, Manuscript ID: 8605 Volume 9, No. 01 March (2021): 13-50.
44. Raza Muhammad Khan, **Asim Mushtaq***, “Effect of Reinforced Glass Fibre on the Mechanical Properties of Polyamide” Pakistan Journal of Scientific and Industrial Research Series A: Physical Sciences, Volume 64A, No. 01 March (2021): 10-18.
45. **Asim Mushtaq***, Raza Muhammad Khan, Zaeem Uddin Ali, Abdul Rafay Ali Khan, Muhammad Mazhar-ul-Haque, Tariq Ali, Muhammad Sharyar Khan “Comparison Study Between The Properties of Kerosene Naphthalene Blend With Turpentine” Bulgarian Chemical Communications, Volume 53, No. 01, (2021): 46-54.
46. **Asim Mushtaq***, Hilmi Mukhtar and Azmi Mohd Shariff, “Effect of Mechanical Properties in Enhanced Polymeric Blend Membranes” Pakistan Journal of Scientific and Industrial Research Series A: Physical Sciences, Volume 64A, No. 02 June (2021): 97-102.
47. **Asim Mushtaq***, Asra Nafees, Raza Muhammad Khan, Amina Israr and Zaeem Uddin Ali “Development of Enhanced Polymer -Fiber Reinforced Concrete” Journal of Engineering and Applied Sciences, Volume 40, Issue 1 (2021): 44-51.

48. Syed Muhammad Tariq, **Asim Mushtaq***, Ahmed Ullah, Rizwan Ahmed Qamar, Zaeem Uddin Ali, Siddiqah Afshan “Preparation of Polymer Coated Aggregate by Utilization of Waste Plastic for Pavement of Roads” Bulgarian Chemical Communications, Volume 53, No. 03, (2021): 294 - 306.
49. Saud Hashmi, **Asim Mushtaq***, Saad Nadeem, Zahoor Awan, Zaeem Uddin Ali “Tertiary Amine-Mediated Polyvinyl Alcohol Membrane over the Porous Support of Polyvinyl Chloride Membrane for CO₂ Separation” International Journal of Membrane Science and Technology, Volume 8, No. 02, (2021): 28-34.
50. Raza Muhammad Khan, **Asim Mushtaq***, Zaeem Uddin Ali “Effect of Ground Tire Rubber on Mechanical Properties of Low Density Polyethylene” International Journal of Membrane Science and Technology, Volume 8, No. 02, (2021): 85-92.
51. Saud Hashmi, **Asim Mushtaq***, Rafiq Ahmed, Zaeem Uddin Ali “Synthesis and characterization of reduced graphene oxide from indigenous coal: A non-burning solution” International Journal of Membrane Science and Technology Volume 9, No. 01, (2022): 1-12.
52. **Asim Mushtaq***, Asra Nafees, Raza Muhammad Khan, Syed Zohair Ahmed, Muhammad Shazar Khan, Hafiz Uzair Ali, Osama Shamim, “Effect of Mechanical Properties on Blends of Acrylonitrile Butadiene Rubber with Styrene-Butadiene Rubber” Science International-Lahore, Volume 34, No. 01, (2022): 27-36.

Professional Society:

- Member of Pakistan Engineering Council (CHEM/4407).
- HEC approved PHD supervisor ID 32,147.
- Member of Pakistan Association of Scientists and Scientific Professions (PASSP/5224).
- Member of Institution of Engineer Pakistan M-21481/KAR-3816.
- NED University of Engineering & Technology has Nominate as an Experts / Subject Specialist for Higher Education Commission.

Computer Skills: Conversant in the use of all Microsoft Windows, MS Word, MS spread sheet, MS Power Point.

Hobbies: Enjoy old music and controversial movies.