

Name	Dr. Amir Shafeeq
Address	<p>Associate Professor Institute of Chemical Engineering & Technology University of the Punjab, Quaid-e-Azam Campus, Lahore, 54590, Pakistan. Tele. no. 042 99230462 Fax. no. 042 99231159 Handphone: 0323 8465878 E-mail. amir_engr@yahoo.com aamirs.icet@pu.edu.pk</p>
Education	<p>2008 PhD, Chemical Engineering Universiti Teknologi Petronas, Bandar Seri Iskandar, Tronoh, Perak, Malaysia</p> <p>2002 Masters of Business Administration (MBA) Institute of Business Administration, University of the Punjab, Lahore, Pakistan.</p> <p>2000 M. Sc. Engg. Chemical Engineering Institute of Chemical Engineering & Technology , University of the Punjab, Lahore, Pakistan.</p> <p>1998 B. Sc. Engg. Chemical Engineering Institute of Chemical Engineering & Technology , University of the Punjab, Lahore, Pakistan.</p> <p>1992 Diploma in French Language Department of French, Oriental College, University of the Punjab, Lahore, Pakistan</p> <p>1991-1992 Professional Courses in Computer Language and Software</p> <ul style="list-style-type: none"> • Programming in Basic • Word Processing and Database Management • Spreadsheet Management • AutoCAD <p>1991 Certificate in French Language Department of French, Oriental College, University of the Punjab, Lahore, Pakistan</p> <p>1991 F.Sc. Pre-Engineering Board of Intermediate and Secondary Education, Lahore, Pakistan</p> <p>1988 Matriculation Board of Intermediate and Secondary Education, Lahore, Pakistan</p>
Professional Experience	<p>1st July 1998 - 28th February 2002 Visiting Faculty</p> <p>Institute of Business Operations and Software Systems (Pvt) Limited, 20/A-C-3, M.M. Alam Road, Gulberg III, Lahore</p> <p><u>Job Description:</u> Teaching computer courses including Microsoft Office and C++ to professionals from various disciplines.</p> <p>3rd May 1999- 28th February 2002 Sales Engineer</p> <p>Vinset Export Import (Pvt) Limited, 6A Block L Gulberg II, Lahore</p> <p><u>Job Description:</u> Sales and Marketing of Industrial Chemicals</p>

	<p>1st March 2002- 6th March 2010 Lecturer</p> <p>Institute of Chemical Engineering & Technology , University of the Punjab, Lahore, Pakistan.</p> <p><u>Job Description:</u> Teaching chemical engineering subjects at undergraduate and postgraduate level.</p> <p>7th March 2010 to date Associate Professor</p> <p>Institute of Chemical Engineering & Technology, University of the Punjab, Lahore, Pakistan.</p> <p><u>Job Description:</u> Teaching chemical engineering subjects at undergraduate and postgraduate level.</p> <p>1st December 2011 to date Deputy Director ORIC</p> <p>Office of Research Innovation and Commercialization, University of the Punjab, Lahore, Pakistan.</p> <p><u>Job Description:</u> Commercialization of products developed by faculty members of University of the Punjab, Lahore.</p>
Memberships	<ul style="list-style-type: none"> • Pakistan Engineering Council, (Registered Engineer) since 1998 (Lifetime)
Research Projects	<p>(2009-2010)</p> <p><u>Main Investigator</u></p> <ol style="list-style-type: none"> 1. “Separation of PVC/PET Mixture using Froth Flotation” Funded by University of the Punjab, Lahore worth Rs. 125,000/- <p><u>Co-Investigator</u></p> <ol style="list-style-type: none"> 2. “An experimental study to explore the characteristics of different metals for the purpose of heat transfer by convection and radiation” Funded by University of the Punjab, Lahore worth Rs. 200,000/- 3. “Heat capacities and decomposition kinetics of imidazolium based ionic liquids and thermal effects of contaminants” Funded by University of the Punjab, Lahore worth Rs. 125,000/- <p>(2010-2011)</p> <p><u>Main Investigator</u></p> <ol style="list-style-type: none"> 4. “Study the effect of Jet Mixing in two phase liquid-liquid and liquid-gas systems ” Funded by University of the Punjab, Lahore worth Rs. 125,000/- <p><u>Co-Investigator</u></p> <ol style="list-style-type: none"> 5. "Design and process study for conversion of waste plastics to oils" Funded by University of the Punjab, Lahore worth Rs. 125,000/- <p>(2011-2012)</p> <p><u>Main Investigator</u></p> <ol style="list-style-type: none"> 6. “Design a packed column for the separation of oil from oil-water emulsion using a bed of polymeric resin” Funded by University of the Punjab, Lahore worth Rs. 200,000/- <p>(2012-2013)</p> <p><u>Main Investigator</u></p> <ol style="list-style-type: none"> 7. “Design A Three Phase Fluidized Bed Contactor For Studying the Gas Holdup and Gas Liquid Mass Transfer” Funded by University of the Punjab, Lahore worth Rs.200,000/-

	<p>(2014-2015)</p> <p>8. “Determination of optimum values for catalytic hydrogenation of edible oils” Funded by University of the Punjab, Lahore worth Rs.200,000/-</p>
<p>University/ Societal Services and related activities</p>	<ul style="list-style-type: none"> • Member, Committee for Quality Assurance Initiative of Institute of Chemical Engineering and Technology, University of the Punjab, Lahore. • Member, Committee for preparing the Syllabi for BS 4 year (external program) for affiliated colleges of University of the Punjab, Lahore • Member, Board of Faculty of Engineering & Technology, University of the Punjab, Lahore • Member, Board of Studies of Faculty of Engineering & Technology, University of the Punjab, Lahore • Coordinator MSc/PhD Chemical Engineering Programs, Institute of Chemical Engg. & Tech. University of the Punjab, Lahore
<p>Brief Statement of Research and Teaching Interest</p>	<p>My main research and teaching interest includes;</p> <ul style="list-style-type: none"> • Process Integration and Intensification • Simulation and Modeling of Batch Processes • Separation Processes • Fluid and Particle Mechanics • Industrial Management and Process Economics
<p>Research Publications (Journals)</p>	<p>Published:</p> <ol style="list-style-type: none"> 1. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, “Determination of inter-stage idle times in scheduling design of a three stage zero wait batch process”. Journal of Applied Sciences 8(9):1706-1712,2008. 2. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, “Scheduling three stage flowshop processes with no intermediate storage using novel matrix approach”. Journal of Applied Sciences 8(11):2136-2141,2008. 3. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, “New completion time algorithms for sequence based scheduling in multiproduct batch processes using matrix”. Chemical Engineering Research & Design 86: 1167-1181,2008. 4. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, “More on completion time algorithms for intermediate storage tanks in multiproduct batch process scheduling using matrix representation”. Industrial & Engineering Chemistry Research 47: 9957–9970,2008. 5. M. Saif Ur Rehman, Ayyaz Muhammad, Amir Shafeeq, M.A. Chughtai, Arshid Mehmood Ali and Farooq Ahmad, “Decolorization of Turquoise Blue Dye by Ozonation, O₃/H₂O₂ and Fenton Processes”. Research Journal of Environmental Sciences 2 (5): 310-315, 2008. 6. A. Muhammad, A. Shafeeq, M.A. Butt, Z.H. Rizvi, A. Chughtai and S.Rehman, “Decolorization and removal of COD and BOD from raw and biotreated textile dye bath effluent through advanced oxidation processes(AOPS)”. Brazilian Journal of Chemical Engineering 25(3):453-459, 2008 7. Ayyaz Muhammad, M.I. Abdul Mutalib, C.D. Wilfred, T. Murugesan and Amir Shafeeq, “Thermophysical properties of 1-hexyl-3-methyl imidazolium based ionic liquids with tetrafluoroborate, hexafluorophosphate and bis(trifluoromethylsulfonyl)imide anions” Journal of Chemical Thermodynamics 40: 1433–1438, 2008

	<p>8. Ayyaz Muhammad, Mohamed I. Abdul Mutalib, Thanabalan Murugesan and Amir Shafeeq," Density and Excess Properties of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K", Journal of Chemical and Engineering Data 53: 2217–2221, 2008</p> <p>9. Ayyaz Muhammad, Mohamed I. Abdul Mutalib, Cecilia D. Wilfred, Thanabalan Murugesan and Amir Shafeeq, "Viscosity, Refractive Index, Surface Tension and Thermal Decomposition of Aqueous N-Methyldiethanolamine Solutions from (298.15 to 338.15) K", Journal of Chemical and Engineering Data 53: 2226–2229, 2008.</p> <p>10. Ayyaz Muhammad, Mohamed I. Abdul Mutalib, Thanabalan Murugesan and Amir Shafeeq," Thermophysical Properties of Aqueous Piperazine and Aqueous (N-Methyldiethanolamine + Piperazine) Solutions at Temperatures (298.15 to 338.15) K", Journal of Chemical and Engineering Data 54: 2317–2321, 2009.</p> <p>11. A. Shafeeq, A. Muhammad, R.U.Khan and M.Azam," Application of heuristics to solve scheduling problems of intermediate transfer policies in multiproduct chemical batch processes". Journal of Quality and Technology Management, V (1) 67-81,2009.</p> <p>12. R.U. Khan , M. Saleem and A. Shafeeq, "Vacuum Gas Carburizing with Acetylene - Gas Phase Modeling of a Bench Scale Reactor", Journal of the Pakistan Institute of Chemical Engineers, Vol.37,25-29, 2009.</p> <p>13. A.Ijaz, A. Shafeeq, A. Muhammad and S.S. Daood," Optimized Values for a sieve plate pulsed column for acetic acid, water and kerosene system". Journal of Quality and Technology Management, VI (1), 119-133,2010.</p> <p>14. Arshad Ali Anjum, Arshad Chughtai, Amir Shafeeq and Ayyaz Muhammad "Improvement in supply chain management for oil and gas sector using drag reduction theory" Journal of the Pakistan Institute of Chemical Engineers Vol:XXXVIII,49-53,2010.</p> <p>15. M. Akram, S. Ali, S.A. Shahid, I. Ullah, M. Nadeem, A. Shafeeq "A Study on the after treatments of metallised acid dye on nylon 6, 6 by using reactive fixing agent". Journal of Quality and Technology Management Vol:VIII (I), 29-40,2012</p> <p>16. Shaukat Ali Shahid, Baber Shahzad, Afshan Naz, Javed Niaz, Ramiza Farrukh, Maria Yaseen, Inam Ullah, Amir Shafeeq "Convenient Synthesis of Ni-Zn Ferrites from Metal Chlorides Articles". Journal of Faculty of Engineering & Technology Vol:19 (1),2012.</p> <p>17. Arshid M. Ali, Ayaz Muhammad, Amir Shafeeq, Hafiz M. A. Asghar, Syed N. Hussain, Hamid Sattar "Doped Metal Oxide (ZnO) and Photocatalysis: A Review". Journal of Pakistan Institute of Chemical Engineers Vol: 40 (1),11-19,2012.</p> <p>18. Shaukat Ali Shahid, Maria Yaseen, Muhammad Shahbaz, Abdul Ghaffar, Maryam Liaqat, Shameela Sadaf and Amir Shafeeq "Optimization of Uniform Field of View and Centre Field of View for Intrinsic Uniformity of Hybrid SPECT/CT using Technitium-99m "Journal of Pakistan Institute of Chemical Engineers , Vol 40(1), 115-118, 2012</p> <p>19. Inam Ullah, Shaukat Ali, Muhammad Asif Hanif, Shaukat Ali Shahid, Muhammad Mushtaq, Amir Shafeeq," Performance of pretreated antimicrobial agent (AEM-5707) on cotton fabric dyed with reactive dye",International Journal of Chemical and Biochemical Sciences, Vol. 3,132-135,2013.</p> <p>20. Amir Shafeeq, Rabya Aslam, Shaukat ali shahid, Ayyaz Muhammad, Aamir Ijaz, Arshid Mehmood Ali,Inam ullah,Muhammad Mushtaq,Umer Rashid," Poly(vinyl alcohol): An Economical Substitute to Calcium Lignosulphonate for PVC/PET Separation by Froth Flotation" Asian Journal of Chemistry; Vol. 25, No. 13, 7509-7512, 2013.</p>
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	<ol style="list-style-type: none"> 21. Muhammad Irfan, Tahir Butt, Naz Imtiaz, Naeem Abbas, Rauf Ahmad Khan, Amir Shafiq, "The removal of COD, TSS and colour of black liquor by coagulation-flocculation process at optimized pH, settling and dosing rate", Arabian Journal of Chemistry (2013) (DOI: 10.1016/j.arabjc.2013.08.007). 22. Aneela Sabir, Atif Islam, Muhammad Shafiq, Amir Shafeeq, Muhammad Taqi Zahid Butt, Nasir M. Ahmad, Khairuddin Sanaullah, Tahir Jamil "Novel polymer matrix composite membrane doped with fumed silica particles for reverse osmosis desalination", Desalination, 368, 159-170, (2015). 23. Aneela Sabir, M. Shafiq, Atif Islam, Shahzad M. Khan, Tahir Jamil, M. Taqi Zahid, Amir Shafeeq, Arslan Shehzad, Arshad S. Bhatti, Younas Habib, Saba Behzad, and Sarwat Jabeen "Influence of Polyethylene Glycol 600 on Cellulose Acetate Membranes for Reverse Osmosis Desalination", Polymers Research Journal, Vol.9, Issue 2, (2015). 24. Raziya Nadeem, Amna Iqbal, Muhammad Abid Zia, Farooq Anwar, Shaikat Ali Shahid, Zahed Mahmood, Amir Shafeeq, Naseem Akhtar "Effect of Cold-Pressing and Soxhlet Extraction on the Physico-Chemical Attributes of Sunflower (<i>Helianthus annuus L.</i>) Seed Oil", International Journal of Chemical and Biochemical Sciences, Vol.7.41-46, (2015). 25. Aneela Sabira, Muhammad Shafiq, Atif Islam, Afsheen Sarwar, Muhammad Rizwan Dilshad, Amir Shafeeq, Muhammad Taqi Zahid Butt, Tahir Jamil "Fabrication of tethered carbon nanotubes in cellulose acetate/polyethylene glycol-400 composite membranes for reverse osmosis", Carbohydrate Polymers 132: 589-597 (2015). 26. Aneela Sabir, Muhammad Shafiq, Atif Islam, Faiza Jabeen, Amir Shafeeq, Adnan Ahmad, Muhammad Taqi Zahid Butt, Karl. I. Jacob, Tahir Jamil "Conjugation of silica nano particles with cellulose acetate/polyethylene glycol 300 membrane for reverse osmosis using MgSO₄ solution" Carbohydrate Polymers, 136: 551-559 (2016). 27. Aneela Sabir, Wail Falatha, Karl I. Jacob, Muhammad Shafiq, Nafisa Gull, Atif Islam, Muhammad Azeem Munawar, Saba Zia, Shahzad Maqsood Khan, Amir Shafeeq, Muhammad Taqi Zahid Butt, Tahir Jamil "Integrally skinned nano-cellular crosslinked asymmetric thin films infused with PEO-PPO-PEO block copolymer/ZnO-NPs for desalination using sea salt" Materials Chemistry and Physics, http://dx.doi.org/10.1016/j.matchemphys.2016.09.022 (2016).
<p>Conference Proceedings</p>	<ol style="list-style-type: none"> 1. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, "Determination of makespan for zero wait batch processes: a novel method using matrix". Proceedings of International MultiConference of Engineers and Computer Scientists, Hongkong, Vol.(II): 21-23 March, 2007. 2. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, "Completion time in single product chemical batch process with parallel unit for ZW/NIS/UIS transfer policies". Proceedings of 21st Symposium of Malaysian Chemical Engineers, Malaysia, 12-14 December, 2007. 3. Ayyaz Muhammad, M.I. Abdul Mutalib, C.D. Wilfred, T. Murugesan and Amir Shafeeq, "Solubility of carbon dioxide and methane in aqueous solutions of Piperazine activated N-Methyldiethanolamine at high pressure", Proceedings of 21st Symposium of Malaysian Chemical Engineers, Malaysia, 12-14 December, 2007. 4. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, "A heuristic method to search for optimal solution using partial enumeration for a multiproduct chemical batch process". Proceedings of 22nd Symposium of Malaysian Chemical Engineers, Malaysia, 2-3 December, 2008.

	<p>5. Ayyaz Muhammad, M. Ibrahim Abdul Mutalib, T. Murugesan, Zakaria Man, M.Azmi Bustam and Amir Shafeeq, "Lattice potential energy and standard absolute entropy of imidazolium based ionic liquids (ILs)", Proceedings of 22nd Symposium of Malaysian Chemical Engineers, Malaysia, 2-3 December, 2008.</p> <p>6. Ayyaz Muhammad, M. Ibrahim Abdul Mutalib, T. Murugesan, Zakaria Man, M.Azmi Bustam and Amir Shafeeq, "A Study on the mutual solubilities and thermal stability of imidazolium based ionic liquids (ILs) and organic solvents", Proceedings of International Conference on Environment 2008, Penang, Malaysia, 15-17 December 2008.</p> <p>7. Ayyaz Muhammad, M. I. Abdul Mutalib, T. Murugesan and Amir Shafeeq, "Predicting density and surface tension of imidazolium based ionic liquids (ILs)", Proceedings of National Postgraduate Conference on Engineering, Science and Technology, Malaysia, 25-26 March, 2009.</p> <p>8. Amir Shafeeq, Ayyaz Muhammad and Mudassar Azam, "More on heuristics for scheduling in multiproduct chemical batch processes with various intermediate transfer policies", Proceedings of Symposium on Engineering Sciences, Faculty of Engg. & Tech., Punjab University Lahore, Pakistan, 30 April 2009.</p> <p>9. Arshad Ali Anjum, Arshad Chughtai, Amir Shafeeq and Ayyaz Muhammad, "Improvement in supply chain management for oil and gas sector using drag reduction theory", Proceedings of 3rd Symposium on Engineering Sciences, Faculty of Engg. & Tech., Punjab University Lahore, Pakistan, 10 March 2010.</p> <p>10. Amir Shafeeq, Ayyaz Muhammad, Aamir Ijaz, and M. Ibrahim Abdul Mutalib, "A software application for scheduling multiproduct chemical batch processes", Proceedings of International Conference on Process Engineering and Advanced Materials, Malaysia, 15-17 June, 2010.</p> <p>11. Ayyaz Muhammad, Amir Shafeeq, Aamir Ijaz, and M. Ibrahim Abdul Mutalib, "Solubility of carbon dioxide in fresh and recycled ionic liquid [C6mim][PF6] at pressures up to 60 bar", Proceedings of International Conference on Process Engineering and Advanced Materials, Malaysia, 15-17 June, 2010.</p> <p>12. Aamir Ijaz, Mahmood Saleem, Amir Shafeeq and Ayyaz Muhammad, "Clogging Performance of Plain and Pleated Fibrous Microfiltrex Cylindrical Filter Candles", Proceedings of International Conference on Process Engineering and Advanced Materials, Malaysia, 15-17 June, 2010.</p> <p>13. Amir Shafeeq, Syed Sheraz Daood, Ayyaz Muhammad and Aamir Ijaz, "Effect of variable reflux ratio on binary distillation in a laboratory scale distillation column", Proceedings of 2010 2nd International Conference on Chemical, Biological and Environmental Engineering (ICBEE 2010), Cairo, Egypt, 2-4 November, 2010.</p> <p>14. Ayyaz Muhammad, Amir Shafeeq, Zahoor ul Hassan Rizvi, Aamir Ijaz, and M. I. Abdul Mutalib, "Experimental solubility of CO₂ and CH₄ in imidazolium based ionic liquid; [C6mim][BF₄] at high pressures", Proceedings of 2010 2nd International Conference on Chemical, Biological and Environmental Engineering (ICBEE 2010), Cairo, Egypt, 2-4 November, 2010.</p> <p>15. Amir Shafeeq, Ayyaz Muhammad and Aamir Ijaz "A new formulation for completion time in multi-product multi-stage batch process for mixed intermediate storage", Proceedings of International Conference on Chemical, Biological and Environmental Engineering (ICCBEE 2011) Bangkok, Thailand, 25-26 December, 2011.</p> <p>16. Ayyaz Muhammad, Amir Shafeeq, Aamir Ijaz, M.I.Abdul Mutalib "High pressure experimental solubility of CO₂ and CH₄ in 1-hexyl-3-methyl imidazolium bis(trifluoromethylsulfonyl)imide; [C6mim][Tf₂N]", Proceedings of International Conference on Chemical and Biological Engineering (ICCBEE 2011) Bangkok, Thailand, 25-26 December, 2011.</p>
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	<p>17. Amir Shafeeq, Ayyaz Muhammad, Waqas Sarfraz, Ali Toqeer, Shazib Rashid, M. K. Rafiq “Mercury Removal Techniques For Industrial Waste Water”, Proceedings of International Conference on Environmental Sciences and Engineering (ICESE 2012), Phuket, Thailand, 24-25 December, 2012.</p> <p>18. Amir Shafeeq, Ayyaz Muhammad, Noman Hassan, Rofice Dickson, “Production Of Biodiesel From Different Edible Oils”, Proceedings of International Conference on Environmental Management and Engineering (ICEME 2013), Singapore, 12-13 September, 2013.</p> <p>19. Amir Shafeeq, Ayyaz Muhammad, Shahid Sarfaraz, Ziad Akram, H. M. Usman Saeed, and Umar Farooq, “Effect of acid concentration on the extraction of furfural from corn cobs”, 3rd International Conference on Chemical Science and Engineering (ICCSE 2014), Phuket, Thailand, 27-28 December, 2014.</p> <p>20. Amir Shafeeq, Mujtaba Ashraf, Ayyaz Muhammad and Shaukat Ali Shahid, “Application of Froth Flotation Technique to Reduce Sulfur from Lakhra Coal Using Froth Flotation, 2015 International Conference on Advances in Environment Research Volume 87 of IPCBEE (2015), DOI: 10.7763 / IPCBEE. 2015. V87. 1, Jeju Island, South Korea, 29-30 July, 2015.</p> <p>21. Amir Shafeeq, Aziz ur Rehman “Effectiveness of different electrodes on the removal efficiency of O-Chlorophenol from industrial waste water” 9th International Conference on Environmental Catalysis, Newcastle, Australia 10th-13th July, 2016.</p>
<p>Dissertations/ Books/Patents</p>	<p>Dissertation</p> <p>1. Amir Shafeeq, “Scheduling Multiproduct Chemical Batch Processes”. <u>PhD Thesis</u>. Universiti Teknologi Petronas, Malaysia 2008.</p> <p>Book Chapter</p> <p>2. Amir Shafeeq, M.I. Abdul Mutalib, K.A. Amminudin and Ayyaz Muhammad, “A novel matrix approach to determine makespan for zero wait batch processes”. Advances in industrial engineering and operations research published by Springer, 2008, pp 143-153. (ISBN: 978-0-387-74903-7)</p> <p>Book</p> <p>3. Amir Shafeeq, “Multiproduct Batch Process Scheduling” published by VDM Verlag Dr. Müller, May 2011 (ISBN: 978-363935244).</p> <p>4. Patent (Submitted) “Pilot Plant for enhanced recovery of fuels from high density polyethylene (HDPE) ravage material” notified (642/2014) in weekly notification on patents and industrial designs on 19/09/2014 by Intellectual Property Organization (IPO) Government of Pakistan.</p>
<p>Seminars/ Workshops/ Conferences</p>	<p>1. Organized and participated in a seminar on “Quality Assurance in Education” held on April 03, 2015 at University of the Punjab, Lahore.</p> <p>2. Organized and participated in “4th Invention to Innovation Summit 2015” at University of the Punjab, Lahore on March 04 -05, 2015.</p> <p>3. Participated in 12 days training workshop on “Managing and Facilitating Research in Educational Institutions” on December 1st – 12th, 2014 in Bangkok (Thailand) and Sydney, Brisbane (Australia) organized by Asian Institute of Thailand (AIT), entura Hydro Tasmania (Australia) and Higher Education Commission Government of Pakistan.</p> <p>4. Participated in 5 days training workshop on “Indigenous on-Campus Training Program for Management Team” on November 17th – 21st, 2014 at University of the Punjab, Lahore.</p>

	<ol style="list-style-type: none"> 5. Organized and participated in a two day workshop on “Introduction to Quality Management System” (ISO 9001:2008) on June 25th -26th ,2014 at University of the Punjab, Lahore. 6. Organized and participated in “3rd Invention to Innovation Summit 2014” at University of the Punjab, Lahore on March 19th -20th ,2014. 7. Participated as a presenter in “International Conference on Environmental Management and Engineering” on September 12th -13th , 2013 in Singapore. 8. Organized and participated in “Invention to Innovation Summit 2013” at University of the Punjab, Lahore on April 9th -10th ,2013. 9. Organized one day workshop on “Mixed Methods Research using SPSS & NVIVO Software” on June 1st , 2013 at University of the Punjab, Lahore 10. Organized one day workshop on “Structural Equation Modeling (SEM) using AMOS” on April 06th , 2013 at University of the Punjab, Lahore 11. Participated as a presenter in “International Conference on Environmental Sciences and Engineering” on December 24th -25th , 2012 in Bangkok, Thailand. 12. Organized “Invention to Innovation Summit-2012” on June 18th ,2012 at University of the Punjab, Lahore. 13. Participated in the training workshop on “Changing the Mindset- Building the Entrepreneurial Culture in Universities and How to hold Business Plan Competition” on Nov, 14th-17th ,2012 at HEC, Lahore 14. Completed the 16 hour course on “Professional Writing” on January,2012 at NUST organized by British Council. 15. Participated in one day seminar on “Developing Local Food Additives/Preservatives” on November 22nd , 2012 at University of the Punjab, Lahore 16. Organized one day workshop on “High Performance Liquid Chromatography (HPLC) on November 10th , 2012 at University of the Punjab, Lahore 17. Organized one day workshop on “Platform for bridging Academia-Industry linkage” on September 20th , 2012 at University of the Punjab, Lahore 18. Organized one day workshop on “Qualitative Research using NVIVO 9 software on March 17th , 2012 at University of the Punjab, Lahore 19. Organized one day workshop on “Quantitative Data Analysis using SPSS” on September 29th , 2012 at University of the Punjab, Lahore 20. Organized one day workshop on “Computerized Accounting using Peachtree Quantum” on July, 7th , 2012 at University of the Punjab, Lahore 21. Organized one day workshop on “Qualitative Research using NVIVO software on July, 7th , 2012 at University of the Punjab, Lahore 22. Participated in a 5 day training programme “Capacity Building for ORIC Managers at Universities” on January 23rd-27th , 2012 at Centre for innovation & Entrepreneurship, NUST organized by British Council and HEC, Islamabad. 23. Participated as a presenter and session chair in “International Conference on Chemical, Biological and Environmental Engineering (ICCBEE2011)” on December 25th -26th ,2011 in Bangkok, Thailand
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	<p>24. Organized one day workshop on “World Quality Day” on December 21st, 2011 at University of the Punjab, Lahore</p> <p>25. Organized one day 4th Symposium on Engineering Sciences held on March 1st,2011 at University of the Punjab, Lahore, Pakistan.</p> <p>26. Participated in a one day workshop on “Research Management” on November 12th, 2010 at University of the Punjab, Lahore.</p> <p>27. Participated as a presenter in “2nd International Conference on Chemical, Biological and Environmental Engineering (ICBEE2010)” on November 2nd -4th,2010 in Cairo , Egypt</p> <p>28. Participated in a four days orientation workshop on “Sustainable Production” conducted by SCI-Pak Consortium held on 30th August – 2nd September 2010 at Holiday Inn, Lahore</p> <p>29. Delivered a lecture in the workshop “Process Integration and Intensification” on July 28th-29th,2010 at Institute of Chemical Engg. & Tech. University of the Punjab, Lahore</p> <p>30. Participated as a presenter in “International Conference on Process Engineering and Advanced Material (ICPEAM 2010” organized by ESTCON2010 on June 15th -17th,2010 in Kuala Lumpur, Malaysia</p> <p>31. Organized one day 3rd Symposium on Engineering Sciences held on March 10,2010 at University of the Punjab, Lahore, Pakistan.</p> <p>32. Delivered a lecture in one day "Symposium on Engineering Sciences",April 30,2009,University of the Punjab, Lahore, Pakistan</p> <p>33. Participated in a two days short course on “Applied Process Control Systems” held on April 7-8,2009 at University of Engg. & Tech. Lahore, Pakistan.</p> <p>34. Participated in a three days seminar on “Polymer Reaction Engineering” held on August 13-15, 2008 at Universiti Teknologi Petronas, Malaysia.</p> <p>35. Participated in a one day seminar on “Advanced Process Control- the enabler for superior performing assets” held on March 13, 2006 at Universiti Teknologi Petronas, Malaysia.</p> <p>36. Organized a two day workshop on "Student counseling and essentials of job hunting for career planning" held on April 15-16,2004 at University of the Punjab, Lahore, Pakistan.</p> <p>37. Participated in a five day seminar on “Hazardous Waste Management” held on February 3-7, 2003 at University of the Punjab, Lahore, Pakistan.</p> <p>38. Participated in “Orientation Program” Organized by Human Resource Development Centre on August 12th-23rd, 2002 at University of the Punjab, Lahore</p>
Countries Visited	<ol style="list-style-type: none"> 1. Perak, Malaysia (PhD , January 2005-December 2008) 2. Kuala Lumpur, Malaysia (International Conference, June 2010) 3. Cairo, Egypt (International Conference, November 2010) 4. Bangkok, Thailand (International Conference, December 2011) 5. Phuket, Thailand (International Conference, December 2012) 6. Singapore (International Conference, September 2013) 7. (Sydney, Brisbane, Canberra) Australia 8. & (Bangkok) Thailand (AMVP, Training Workshop , December, 2014) 9. Phuket, Thailand (International Conference, December 2014) 10. Jeju Island, South Korea (International Conference, July 2015) 11. Dubai , UAE Visit - July 2015 11. Newcastle, Australia (International Conference, July 2016)