Dr. Yasin Khan

BSc Elect. Engg, Pakistan (Gold Medal)
MSc Elect. Engg, Pakistan
PhD Elect. Engg. Japan (Gold Medal)

Professor

Department of Electrical Engineering

College of Engineering, King Saud University,
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CV in Brief

Dr. Yasin Khan

Professor

Department of Electrical Engineering
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Phone : *+966-50-894-2534*
Email: *yasink@ksu.edu.sa* ***(Work)***
yasinkhan71@gmail.com ***(Personnel)***

Academic Qualification

PhD Electrical Engineering, Kyushu University, Japan ….. 2004

Professional Experience (26 Years)

Teaching: King Saud University, Riyadh, Saudi Arabia ….. since 2004 (17 years)
Administration/Research: Planning Commission, Pakistan ….. (9 years)

Awards Received (Nos. 16)

Gold Medals (2), Scholarships (Middle school ~ PhD), Best Papers, Certificates of appreciation, Best graduation projects, etc.

Research Publications (Nos. >150)

Patents: **1**
Journals: **>80**
Conferences: **>70**
Book/ Book Chapters: >4

Trainings (Nos. >10)

Research grants (Nos. >5)

Graduate Students Supervision (Nos. >30)

Curriculum Vitae

Dr. Yasin Khan

Professor

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PERSONAL

Date of Birth • 2-Feb-1971
Nationality • Pakistani
Gander • Male
Marital Status • Married
Languages • English, Japanese, Urdu, Pashto, Arabic

EDUCATION

2000-2004 • Ph.D. Electrical Engineering *
Kyushu University, Fukuoka, Japan
Thesis: *Reliability Improvement of Gas Insulated Switchgear*

1994-1997 • M.Sc. Electrical Engineering
NWFP Univ. of Engineering and Technology (UET), Peshawar, Pakistan
Thesis: *Long Term Energy Planning in Pakistan*

1989-1993 • B.Sc. Electrical Engineering **
NWFP University of Engineering and Technology (UET), Peshawar Pakistan
Final Year Project: *Energy Conservation in Printing Industry*

* Received a ***Gold Medal*** from Institute of Electrical Engineers Japan (IEEJ) and a ***Best Research Paper and its Presentation Award for Young Researcher*** during PhD

** With ***Gold Medal*** and with ***honor***.

PROFESSIONAL EXPERIENCE

July. 2016-Present • ***Professor***
Department of Electrical Engineering, College of Engineering, King Saud University, Riyadh, Kingdom of Saudi Arabia

Sept. 2017-Present • ***Technical Manager High Voltage Lab.***
Department of Electrical Engineering, College of Engineering, King Saud University, Riyadh, Kingdom of Saudi Arabia

Oct. 2014 ~ Dec 2018	• **Member Working Group, SASO**, Saudi Arabian Standard Organization (SASO), Riyadh, Kingdom of Saudi Arabia (Developed *Saudi Building Code for (i) Electrical Installation in Buildings*)
July 2010 ~July 2016	• ***Associate Professor*** Department of Electrical Engineering, College of Engineering, King Saud University, Riyadh, Kingdom of Saudi Arabia
Mar 2010 ~ June 2016	• **Consultant**, Saudi Aramco Chair in Electrical Power, King Saud University, Saudi Arabia (*Development of a Reliable Detection System for High Impedance Faults in MV Distribution System*) *US Patent No: 9,310,416 Granted, Yasin Khan et. al., (April, 2016)*
2009 ~ 2020	• ***Member*** **Accreditation Committee (ABET and NCAAA)** Department of Electrical Engineering, College of Engineering, King Saud University, Riyadh, Kingdom of Saudi Arabia
2008 ~ June 2014	• ***Group Coordinator***, Department of Electrical Engineering, College of Engineering, King Saud University, Riyadh, Kingdom of Saudi Arabia
Sept. 2004-2017	• ***Testing Team Member (High Voltage Lab).*** Department of Electrical Engineering, College of Engineering, King Saud University, Riyadh, Kingdom of Saudi Arabia
Sept. 2004~July 2010	• ***Assistant Professor*** Department of Electrical Engineering, College of Engineering, King Saud University, Riyadh, Kingdom of Saudi Arabia
Apr. 2004 ~ Sept. 2004	• ***Assistant Chief (Power) (BPS-18),*** Energy Wing, Planning Commission, Islamabad Pakistan
April 2000~ Mar 2004	• ***PhD Researcher,*** *Graduate School of Information Science and Electrical Engineering (ISEE), Kyushu University, Fukuoka, Japan*
Oct. 1997 ~ Mar. 2000	• ***Assistant Chief (Power) (BPS-18),*** Energy Wing, Planning Commission, Islamabad Pakistan
May 1995 ~ Oct 1997	• ***Research Officer (Power)*** (BPS-17), Energy Wing, Planning Commission, Islamabad Pakistan

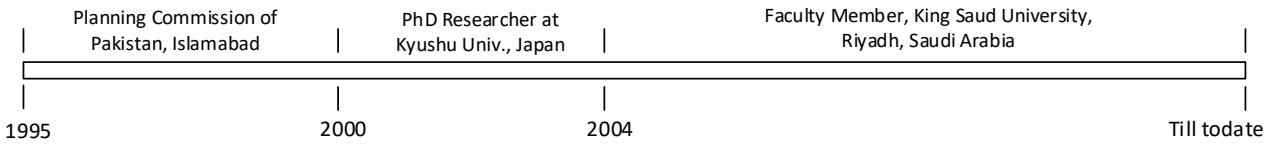

Figure-1: Overall Experience

Demonstrated Experience in Leadership /Awards

1. Received a ***GOLD MEDAL*** from the *Institute of Electrical Engineers of Japan (IEEJ)* for outstanding research work (among >1400 papers) and its presentation in the National Convention of Electrical Engineers in 2003 held at Tokyo, Japan (March 2003).

2. ***Best Paper Presentation Award for Young Researcher*** in *Japan-Korea Joint Symposium on Electrical Discharges and High Voltage Engineering (ED & HVE)* for outstanding research work in the field of electrical Engineering and its presentation in the Symposium held at Miyazaki, Japan (2001).

3. Received a ***GOLD MEDAL in Electrical Engineering*** by securing the highest marks in the whole university in Mathematics in aggregate in 1st, 2nd and 3rd Year BSc. Electrical Engineering examinations (1993).

4. Government of Japan awarded the ***Monbusho Scholarship*** for pursuing my PhD course research at Graduate School of Information Science and Electrical Engineering (ISEE), Kyushu University, Fukuoka, Japan which is one of the prestigious institution in Japan (2000 ~ 2004).

5. Received a "***Certificate of Appreciation***" from *Planning Commission, Govt. of Pakistan* for excellent research work during my PhD research in Japan (2004).

6. Federal Public Service Commission (FPSC) awarded ***Four (04) advance increments*** for excellent educational record and FPSC test/interview for the post of Research Officer (Power), in Energy Wing, Planning Commission, Islamabad in 1995.

7. Obtained the ***Merit Scholarship throughout the academic career*** from **Middle School through PhD (Monbusho Scholarship)**.

8. Award for the ***Best Research Project Report*** for the year 2008/2009 by the *Research Center, College of Engineering, King Saud University, Riyadh, Saudi Arabia* (2009).

9. **Guest Speaker** at Electrical Engineering Department, King Fahd University of Petroleum and Minerals (KFUPM) on several occasions in different short training courses on Electrical Power System and High Voltage Engineering (Since 2007 ~)
   - **Visiting Faculty Member,** Kyushu University, Fukuoka, Japan (2007 ~)
   - **Visiting Faculty Member,** Kitakyushu Institute of Technology, Kitakyushu, Japan (2009-2012)
   - **Visiting Professor**, University of Lyon, AMPERE Lab Collongue, Ecully, France (2015~)
   - **Guest Speaker** at Kumamato University, Kumamoto, Japan (2014)

10. Award for the ***Best Research Paper*** (out of >150 papers) submitted to 3rd Global Conference on Power Control and Optimization (PCO 2010) Gold Coast, Australia (2-4th Feb., 2010).

11. Award for the ***Best Paper*** of the Conference submitted to 4th IEEE International Conf. on Modeling, Simulation and Applied Optimization (ICMSAO'11), Kuala Lumpur, Malaysia (2011).

12. Received a ***best student graduation project award*** for supervising their thesis on "*Study and Design of Smart Energy Meter*" from Advanced Electronics Company, KSA, (June, 2012). (http://c.ksu.edu.sa/epachair/en/invention)

13. Received a ***best student graduation project award*** from College of Engineering for supervising their thesis on "*Wireless Electricity*" at King Saud University, KSA, (January, 2016)

14. ***Certificate of Appreciation*** from College of Engineering for distinguished efforts in preparation process for evaluating the BSc program of Electrical Engineering to acquire the accreditation of the National Commission for Academic Accreditation and Assessment (NCAAA) 2015.

15. ***Certificate of Appreciation*** from Saudi Arabian Standard Organization (SASO), Riyadh, Kingdom of Saudi Arabia for contribution in developing *Saudi Building Code for Electrical Installation in Buildings (SBC 401)….. 2018*

16. The US Patent No: 9,310,416 (April, 2016) mentioned at Sr. 1 in the research publications is being nominated for **King Salman's Award** in July 2018

Research Publications Record

A. *US Patent*

1. Yasin Khan et. al., "GSM/GPRS Based Method, System and Computer Programs to Determine and Locate High Impedance Faults On Medium Voltage Distribution Networks in High Resistivity Areas",
   - US Patent No: 9,310,416 (12.04.2016) https://worldwide.espacenet.com/publicationDetails/originalDocument?FT=D&date=20160412&DB=&locale=&CC=US&NR=9310416B2&KC=B2&ND=1
   - Japanese Patent No: JP 6069508 B2 (01.02.2017) https://worldwide.espacenet.com/publicationDetails/originalDocument?FT=D&date=20170201&DB=&locale=&CC=JP&NR=6069508B2&KC=B2&ND=1
   - Canadian Intellectual Property Office, Patent No: CA 2883642 A1 (G01R 31/08 (2006.01)), 2017-07-11 1
   - Chinese Intellectual Property Office, Patent No: CN104755946 B, June 6, 2017 https://encrypted.google.com/patents/CN104755946A?cl=zh

B. *International Refereed Journals (Peer Reviewed)*

1. Rashed Meer, Yasin Khan, Nissar Rasool Wani, Abdulrahman Ali Al-Arainy, "The Estimation of Lightning Impulses Superimposed onto Pre-Stressed DC Breakdown Voltages Using the Leader Propagation Method", Energies, 15(5), 1708; (2022), https://doi.org/10.3390/en15051708

2. A Ghaffar, M Umair, MAS Alkanhal, Y Khan, "Dispersion characteristics of surface plasmon polaritons in a graphene–plasma–graphene waveguide structure", Canadian Journal of Physics, Vol.100, Issue 2, Pages 123-1282022

3. Ramadan Fayez Ewaida, Nissar Rasool Wani, Yasin Khan and Abdulrahman Ali Al-Arainy, "Defect Localization Inside Simulated MV Switchgear Based on Cumulative Energy Curve Using Transient Earth Voltage Sensors", Energies 2021, 14(2), 320; https://doi.org/10.3390/en14020320 (ISI Indexed)

4. M.Azam, M.Z.Yaqoob,A.Ghaffar, Majeed AS Alkanhal, Ali H Alqahtani and Y.Khan, "Electromagnetic plasma graphene waveguide structure in metamaterial-filled bi-layer graphene structures", Plasmonics (Accepted) (ISI Indexed)

5. Ahsan Illahi , M. Bashir , Majeed A. S. Alkanhal , Sadia Khatoon , Abdul Ghaffar4 and Y. Khan, "Correction to: Electromagnetic waves scattering from a sphere of complex conjugate medium", Journal of the European Optical Society-Rapid Publications, Vol.17:21 (Oct. 2021), https://doi.org/10.1186/s41476-021-00160-z

6. Saeed, M., Ghaffar, A., Alkanhal, M.A.S. Yasin Khan, "Characteristics of hybrid surface plasmon polaritons at a chiral graphene metal interface in cylindrical waveguides", Opt Quant Electron 53, 560 (2021), https://doi.org/10.1007/s11082-021-03219-w

7. M.Arfan, Majeed A.S.Alkanhal, M.Y.Naz, Al-H.Alqahtani, Y.Khan, "Orbital angular momentum wave scattering from perfect electromagnetic conductor (PEMC) sphere", Volume 253, , No.168562, March 2022. https://doi.org/10.1016/j.ijleo.2021.168562

8. Azam, M., Yaqoob, M.Z., Ghaffar, A., MAS Alkanhal, Y Khan, "Electromagnetic Energy Surface Modes in Metamaterial-Filled Bi-layer Graphene Structures", Plasmonics 16, 1175–1194. (2021), https://doi.org/10.1007/s11468-021-01375-z

9. Naz, M.Y., Shukrullah, S., Rehman, S.U. Y. Khan, A. A. Al-Arainy, "Optical characterization of non-thermal plasma jet energy carriers for effective catalytic processing of industrial wastewaters", Scientific Reports 11, pp. 2896. (2021) https://doi.org/10.1038/s41598-021-82019-4

10. A. Ghaffar , M. Umair , Majeed A. S. Alkanhal , and **Y. Khan**, "Dispersion characteristics of surface plasmon polaritons in a graphene plasma graphene waveguide structure", Canadian Journal of Physics(Accepted). (ISI Indexed)

11. I.Toqeer , M.Z.Yaqoob, A. Ghaffar,Majeed A. S. Alkanhal, **Y.Khan** and Yosef T. Aladadi, "Reflectance and transmittance of terahertz waves from graphene embedded metamaterial structures", JOSA, A(Accepted) (ISI Indexed)

12. M Saeed, A Ghaffar, Majeed AS Alkanhal, and **Y Khan**, "Hybrid energy surface plasmon modes supported by graphene-coated circular chirowaveguide", Optical Materials (Accepted) (ISI Indexed)

13. Majeed A. S. Alkanhal, M. Umair , A. Ghaffar ,M.Y.Naz , Ali H Alqahtani and **Y. Khan**, "Propagation of Hybrid Surface Waves in Ferrite Anisotropic Plasma Planar Structures", Optik, Volume 229, March 2021, 166255 (ISI Indexed)

14. M Saeed, A Ghaffar, Majeed AS Alkanhal, Ali H Alqahtani and **Y Khan,** "Plasmon modes in metamaterial-filled double-layer graphene-wrapped cylindrical waveguides", Plasmonics, https://doi.org/10.1007/s11468-020-01328-y (ISI Indexed)

15. M Saeed, A Ghaffar, Majeed AS Alkanhal, Ali H Alqahtani, **Y Khan,** Sajjad ur Rehman, Plasmon modes supported by metamaterial-filled monolayer graphene cylindrical waveguides", JOSA B,Vol.37(11), 3515-3525, 2020 (ISI Indexed)

16. M Umair, A Ghaffar, Majeed AS Alkanhal, MY Naz, Ali H Alqahtani, **Y Khan,** Dispersion characteristics of hybrid surface waves at chiral-plasma interface", Journal of Electromagnetic Waves & Applications, doi.org/10.1080/09205071.2020.1828184 (ISI Indexed)

17. MZ Yaqoob, A Ghaffar, Majeed AS Alkanhal, MY Naz, Ali H Alqahtani, **Y Khan**, Electromagnetic surface waves supported by a resistive metasurface-covered metamaterial structure", Scientific Reports | (2020) 10:15548 (ISI Indexed)

18. M.A.Ali, A.Ghaffar, Majeed A.S. Alkanhal, and **Y.Khan**, "Study of hybrid surface Plasmon modes in metallic circular waveguide filled with magnetized plasma", Waves In Random And Complex Media, doi.org/10.1080/17455030.2020.1779386, 2020. (ISI Indexed)

19. M. Umair, A.Ghaffar; Majeed A. S. Alkanhal; Ali H. Alqahtani; **Y. Khan**, Transverse electric surface waves in ferrite medium surrounded by plasma layers", Journal of the European Optical Society-Rapid Publications (2020) 16:17 (ISI Indexed)

20. M.Umair, M.Azam, Majeed alkanhal, A.Ghaffar, Y.T.Aladadi and **Y.Khan**, Characteristics of Surface Plasmon Polaritons in Magnetized Plasma Film Walled by Two Graphene Layers", J. of Nanoelectronics & Optoelectronics, Vol. 15, pp. 1–6, 2020 (ISI Indexed)

21. M.Y.Naz,S.Ahmad, S.Shukurullah, **Y. Khan** and A.Ghaffar, Effect of microwave plasma treatment on membrane structure of polysulfone fabricated using phase inversion method", Materials Today: Proceedings: 2020 (ISI Indexed)

22. W. Bashir, N. Ul H. Altaf , **Y. Khan,** A.A.A.-Arainy and T.A. Sheikh, Catalytic and Non-Catalytic Treatment of Industrial Wastewater under the Exposure of Non-ThermalPlasma Jet", Process, 2020 (ISI Indexed)

23. Muhammad Kamran, Ahsan Illahi, Siraj-ul-Islam Ahmad,Majeed A. S. Alkanhal, Abdul Ghaffar and **Yasin Khan,** Enhancement of directivity of dipole antenna by a complex conjugate cylinder", Waves In Random And Complex Media, https://doi.org/10.1080/17455030.2019.1663957 (ISI Indexed)

24. S. Shukurullah, S. A. Sulaiman, **Y. Khan**, Majeed A.S. Alkanhal and A. Ghaffar, PIV Study of a Swirling Fluidized Bed Operated with a Mesh-coupled Annular Blade Distributor", Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019 (ISI Indexed)

25. Ahsan Illahi, M. Bashir, Majeed A. S. Alkanhal, Sadia Khatoon, Abdul Ghaffar and **Y. Khan, "**Electromagnetic waves scattering from a sphere of complex conjugate medium", Journal of the European Optical Society-Rapid Publications, (2019) 15:10 (ISI Indexed)

26. M.M. Tiwana, AB Manan, A.Ghaffar, **Y. Khan,** "Diffraction of electromagnetic waves due to a point source by a three part boundary satisfying perfect electromagnetic conductor conditions", Waves in Random and Complex Media, https://doi.org/10.1080/17455030.2019.1587211 (ISI Indexed)

27. Usama Khaled, Falah Alotaibi, **Y. Khan,** A, Beroual, A. Al-Arainy, "Analytical Study for Performance of Novel Design of Efficient Two-Stage Electrostatic Precipitator", IET Science, Measurement & Technology, Volume: 12 , Issue: 4 , pp. 486 - 491 (2018), (ISI Indexed)

28. M. H. Shehzad, M. Bashir, M. Z. Yaqoob, A. Ghaffar, Majeed Alkanhal, and **Y. Khan**, "Characteristics of electromagnetic wave transmission and reflection from isotropic plasma coated circular nihility cylinder", AIP Advances, Volume 9, Issue 4, 2019 (ISI Indexed)

29. S Shukrullah, MY Naz, NM Mohamed, KA Ibrahim, **Y. Khan,** A Ghaffar, "Synthesis of MWCNT Forests with Alumina-Supported Fe2O3 Catalyst by Using a Floating Catalyst Chemical Vapor Deposition Technique", Journal of Nanomaterials, Volume 2019, Article ID 4642859, (ISI Indexed)

30. I.Toqeer, M. Y. Naz, **Y. Khan,** M. Azam, M. A. S. Alkanhal and R. M. M. Meer, Morphological and magnetic response of copper substituted nickel ferrite nanoparticles", Philosophical Magazine Letters 2019. (ISI Indexed)

31. A. Ghaffar, Majeed A. S. Alkanhal, and **Y.Khan, "**Field intensity of a perfect electromagnetic conductor circular reflector coated with a plasma layer under oblique incidence", OPTIK, Volume: 154, Pages: 626-633, DOI: 10.1016/j.ijleo.2017.10.055 (ISI Indexed)

32. Shazia Shukrullah, Norani Mohamed, **Yasin Khan**, M. Y. Naz, Abdul Ghaffar and Irfan Ahmad,Carbon Feedstock Effect on MWCNT Structures Grown with a Compound Catalyst", Journal of Nanomaterials Volume 2017, Article ID 3407352, 9 pages (ISI Indexed)

33. A.S.Khan, A.Ghaffar, MY. Naz, M.Azam, **Y. Khan** and I. Ahmed, Synthesis of nickel-copper nanocrystalline ferrite adsorbents for treatment of textile effluents", Digest journal of nanomaterials and biostructure,12(1),April-June 2017 (ISI Indexed).

34. Naz, M.Y., Shukrullah, S., Rehman, S.U., **Y. Khan,** "Optical characterization of non-thermal plasma jet energy carriers for effective catalytic processing of industrial wastewaters". Sci Rep 11, 2896 (2021). https://doi.org/10.1038/s41598-021-82019-4 (ISI Indexed)

35. S. Shukrullah, Warda Bashir, Noor Ul Huda Altaf, **Yasin Khan**, Abdulrehman Ali Al-Arainy and Toqeer Ahmad Sheikh, "Catalytic and Non-Catalytic Treatment of Industrial Wastewater under the Exposure of Non-Thermal Plasma Jet", Process, 8(6), 667; ", https://doi.or"g/10.3390/pr8060667 (June 2020) (ISI Indexed)

36. S Shukrullah, Muhammad Yasin Naz , Abdul Ghaffar, **Yasin Khan**, Abdulrehman Ali Al-Arainy and Rashed Meer, "Experimental and statistical validation of data on mesh-coupled annular distributor design for swirling fluidized beds", Process, 8, 632; doi:10.3390/pr8050632 (2020) (ISI Indexed)

37. Zia Ur Rehman, Abdulrehman Ali Al-Arainy, **Yasin Khan**, Nissar Rasool Wani. "Surface Flashover Characteristics Of Composite Insulator Under Lightning Impulse Voltage Superimposed On Pre Stressed DC", International Journal of Industrial Electronics and Electrical Engineering, ISSN(p): 2347-6982, ISSN(e): 2349-204X Volume-7, Issue-7, Jul.-2019, (ISI Indexed)

38. Usama Khaled, Falah Alotaibi, **Y. Khan**, A, Beroual, A. Al-Arainy, "Experimental and Analytical Study for Performance of Novel Design of Efficient Two-Stage Electrostatic Precipitator", IET Science, Measurement & Technology, Volume: 12 , Issue: 4 , pp. 486 - 491 (2018), (ISI Indexed)

39. A. Ghaffar, Majeed A.S.Alkanhal, **Y.Khan,** "Field intensity of a perfect electromagnetic conductor circular reflector coated with a plasma layer under oblique incidence", Optik (Elsevier) Vol. 154, pp. 626–633, (2018) (ISI Indexed)

40. A. Ghaffar, M. M. Hussan, Majeed A. S. Alkanhal & **Yasin Khan**, "Interaction of directive electromagnetic radiation with isotropic plasma-coated PEMC cylinder", Waves in Random and Complex media, https://doi.org/10.1080/17455030.2018.1470354, (2018) (ISI Indexed)

41. Muhammad Azam, Irfan Toqeer, Abdul Ghaffar, Muhammad Y. Naz, Majeed A. S. Alkanhal, and **Yasin Khan**, "Electromagnetic Wave Reflectance, Transmittance, and Absorption in a Graphene-Covered Uniaxial Crystal Slab", Progress In Electromagnetics Research M, Vol. 73, 71–79, (2018) (ISI Indexed)

42. M. Shafa, M.Y. Naz*, M.R. Ahmad, **Y. Khan** and A. Ghaffar, "Structural Study on Nano-crystals of Spinel MgX-Zn1-X-Fe2O4 Ferrite with and without Calcination", High Temp. Mater. Proc. 37(1): 89–95, (2018). (ISI Indexed)

43. M. Y. Naz, S.A. Sulaiman, **Y. Khan**, A.Ghaffar, Y.Jamil, & I . Ahmad, "Study of particle dynamics in a swirling Fluidized bed by using a mesh-type air Distributor", Journal of Porous Media, 21(10):1–10 (2018), (ISI Indexed)

44. Majeed A.S. Alkanhal, A. Ghaffar,· M. M. Hussan, **Y. Khan**, I. Ahmad, Q. A. Naqvi, "Scattering by a magnetized plasma-coated topological insulator Cylinder", Journal of Computational Electronics 17:3, 949–958, (2018) https://doi.org/10.1007/s10825-018-1169-x, (ISI Indexed)

45. M. M. Hussan, A. Ghaffar, Majeed A. S. Alkanhal, M. Y. Naz, Sajjad Ur Rehman, and **Y. Khan**, "Scattering from isotropic plasma coated nihility sphere", Physics Of Plasmas Vol. 24, 063303, http://dx.doi.org/10.1063/1.4985656, (2017) (ISI Indexed)

46. Ahsan Illahi, Abdul Ghaffar, Majeed A. S. Alkanhal, **Y. Khan**, Abdul Aziz, Q. A. Naqvi, Muhammad Sharif, "PEMC Backed Chiral Nihility Gregorian System", Optoelectronics and Advanced Materials – Rapid Communications, Vol. 11, No. 7-8, p. 409 – 414, (2017), (ISI Indexed)

47. A. S. Khan, A. Ghaffar, M. Y. Naz, M. Azam, I. Ahmad, **Y. Khan**, "Synthesis of Nickel-Copper Nano crystalline Ferrite Adsorbents for Treatment of Textile Effluents", Digest Journal of Nanomaterials and Biostructures, Vol. 12, No. 2, p. 235 – 242, (2017) (ISI Indexed)

48. S.Shukulullah, N. M. Mohamed, **Y. Khan**, M. Y. Naz, A. Ghaffar, and I. Ahmad, "Effect of Gas Flowrate on Nucleation Mechanism of MWCNTs for a Compound Catalyst", Journal of Nanomaterials, Volume 2017, Article ID 3407352, 9 pagettps://doi.org/10.1155/2017/3407352 (2017), (ISI Indexed)

49. **Y. Khan**, S. Shukrullah, M. Y. Naz, A. Ghaffar, I. Ahmad, "Ferrocene weight optimization for CVD growth of carbon nanotubes over Si/SiO2/Al2O3", Digest Journal of Nanomaterials and Biostructures, Vol. 12, No. 4, p. 957 - 963 (December 2017), (ISI Indexed)

50. Y. Naz, S. A. Sulaiman, S. Shukrullah, A. Ghaffar, **Y. Khan**, I. Ahmad. "PIV investigations on particle velocity distribution in uniform swirling regime of fluidization", Granular Matter 19:40, DOI 10.1007/s10035-017-0727-4 (2017), (ISI Indexed)

51. M. Y. Naz, S. Shukrullah S A. Sulaiman N.Rehman, **Y. Khan**, A.Ghaffar. S. Ullah, " Investigations on spatial distribution of low temperature plasma parameters using NiCr wire probe diagnostic", Measurement, Vol. 91 pp, 194–200 (2016), (ISI Indexed)

52. **Y Khan**, A H Al Ohaly, M H Abbasi, "Dynamic Analysis for Grid connected PV inverter under controlled environment", Journal of Optoelectronics and advance materials, Vol. 18, Iss. 5-6, (May – June 2016) (ISI Indexed)

53. M. Y. Naz, S. Shukrullah, A.Ghaffar, N. U. Rehman, and **Y.Khan**, "Test of a New Tip Material for Langmuir Probe Diagnostic", Journal of Applied Mechanics and Technical Physics, Vol. 57, No. 2, pp. 211–218 (2016)

54. M.Z. Yaqoob, I. Shakir, A. Ghaffar, **Y. Khan** and Q.A. Naqvi, "Transmission of electromagnetic wave from anisotropic plasma coated nihility circular cylinder", International Journal of Applied Electromagnetics and Mechanics, Vol. 50, pp:51–61, DOI 10.3233/JAE-150047 (2016) (ISI Indexed)

55. Saleh Alsuhaibani, **Y. Khan**, A, Beroual, N. H. Malik, "Frequency Response Analysis Methods for Power Transformers Diagnosis"' Energies, vol: 9(989), pp. 1-17, 2016; doi: 10.3390/en9110879 (ISI Indexed)

56. **Y. Khan**, "Partial Discharge Pattern Analysis Using PCA and Back Propagation Artificial Neural Network for the Estimation of Size and Position of Metallic Particle Adhering to Spacer in GIS", Electrical Engineering, DOI 10.1007/s00202-015-0343-4, Vol. 98, pp:29–42, (2016) (ISI Indexed)

57. A. Ali, M.U. Farooq, M.Y. Naz, A. Qayyum, **Y. Khan**, A. Ghaffar, and S. Shukrullah, "Symmetric tungsten triple probe diagnostic for time resolved measurements in plasma discharge", International Journal of Applied Electromagnetics and Mechanics Vol. 49 pp: 289–298 DOI 10.3233/JAE-150030 (2015) (ISI Indexed)

58. M. U. Farooq, A. Ali, A. Qayyum, M. Y. Naz, **Y. Khan**, S. Shukrullah and Ch. A. Ghaffar, "Time Function Triple Langmuir Probe Measurements in Low Frequency Pulsed DC Discharge Plasma", High Energy Chemistry, Vol. 49, No. 4, pp. 286–293, ISSN 0018-1439, (2015). (ISI Indexed)

59. M. Y. Naz, S. Shukrullah, **Y. Khan**, A. Ghaffar, N. U. Rehman, and S. Ullah, "Actinometry Study on Dissociation Fraction in Low Pressure Capactively Coupled Ar–O2 Mixture Plasma", High Energy Chemistry, Vol. 49, No. 6, pp. 449–458. ISSN 0018-1439, (2015) (ISI Indexed)

60. M. Y. Naz, A. Ghaffar, **Y. Khan**, Q. A. Naqvi, "Characteristics of high frequency powers through a chiral slab sandwiched between graphene layers", Optoelectronics and Advanced Materials – Rapid Communications, Vol. 9, No. 3-4, pp: 357 – 361, (March – April 2015). (ISI Indexed)

61. **Y. Khan**, "Estimation of Size and Position of Metallic Particle Adhering to Insulating Spacer in GIS using LVQ", Journal of Optoelectronics and Advanced Materials, Vol. 17, No. 5-6, p. 780 – 784, May – June 2015 (ISI Indexed)

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148. *Eun*-Kyung Lee, **Yasin Khan,** Koh-ichi Sakai, Junya Suehiro and Masanori Hara, "*Observation of Spherical Free-conducting Particle Motion around Simple Shaped Spacers under DC voltage",* Proc. Of 2001 National Convention of IEEJ, Nagoya, Japan. A-17A4 (1-064), (March 21-23, 2001)

149. *Koh*-ichi Sakai, **Yasin Khan,** Eun-Kyung Lee, Junya Suehiro and Masanori Hara, "*Effect of Micordischarge Occurrences on Motion of Spherical Metallic Particle within Diverging Gap"*, Proc. Of 2001 National Convention of IEEJ, Nagoya, Japan. A-17A4 (1-066), (March 21-23, 2001)

150. Koh-ichi Sakai, Qiaogen Zhang, **Yasin Khan,** Junya Suehiro and Masanori Hara, "*Breakdown Characteristics of Particle-Contaminated Diverging Air Gap with Lower Electrode Dielectrically Coated",* Proc. of 2001 Annual Conference of Fundamental and Material Society, A-Branch, IEE, (Shikoku), Japan A11-23, (2001)

151. Eun-Kyung Lee, **Yasin Khan,** Akihito Oda, Qiaogen Zhang, Koh-ichi Sakai, Junya Suehiro and M. Hara, "*Breakdown Triggered by Free Conducting Spherical Particles around Simple Shaped Space under DC Voltage",* Proc. of 2001 Annual Conference of Fundamental and Material Society, A-Branch, IEEJ, (Shikoku), Japan. A11-25, (2001)

152. Akihito Oda, Eun-Kyung Lee, **Yasin Khan,** Koh-ichi Sakai, Qiaogen Zhang, Shigemitsu Okabe, Junya Suehiro and Masanori Hara, "*Simulation of Free-conducting Spherical Particle Motion around Cylindrical Spacer under DC Voltage",* Proc. Of Joint Conference of Elect. & Electronics Engineers in Kyushu, Saga, Japan. Paper No.529, (October 5-6, 2001)

153. Koh-ichi Sakai, Qiaogen Zhang, **Yasin Khan,** Akihito Oda, Eun-Kyung Lee, Junya Suehiro and M. Hara, "*Estimation Method of DC Breakdown for Free-conducting Spherical Particle within Non-parallel Plane Electrodes*", Proc. Of Joint Conference of Elect. & Electronics Engineers in Kyushu, Saga, Japan. Paper No.525, (October 5-6, 2001)

154. Qiaogen Zhang, Koh-ichi Sakai, **Yasin Khan,** Eun-Kyung Lee, A. Oda, J. Suehiro and M. Hara, *"Effect of SF_6 Gas on DC Breakdown Voltage within Non-parallel Plane Electrodes with Free-Conducting Particle*", Proc. of Joint Conference of Elect. & Electronics Engineers in Kyushu, Saga, Japan. Paper No.526, (October 5-6, 2001)

155. Eun-Kyung Lee, **Yasin Khan,** Akihito Oda, Koh-ichi Sakai, Qiaogen Zhang, Shigemitsu Okabe, Junya Suehiro and Masanori Hara, "*Characteristics of DC Breakdown for free conducting Spherical Particle around Cylindrical Shaped Spacer under DC Voltage*", Proc. Of Joint Conference of Elect. & Electronics Engineers in Kyushu, Saga, Japan. Paper No.527, (October 5-6, 2001)

156. Koh-ichi Sakai, Qiaogen Zhang, **Yasin Khan,** Eun Kyung Lee, A. Oda, J. Suehiro and Masanori Hara, *"Dependence of DC Breakdown Voltage of Diverging Gap on SF_6 Gas Pressure in the Presence of Free Conducting Particle*", Proc. of 2nd Annual Tech. Meeting of Kyushu Electric Power Co., Fukuoka, Japan. pp.9-14, (Sept. 28, 2001)

157. **Yasin Khan**, Koh-ichi Sakai, Eun-Kyung Lee, Junya Suehiro and Masanori Hara. *"Effect of Different Shaped spacers on Free-conducting Particle Motion in Non-Uniform Field under DC Voltage in Atmospheric Air",* Proc. of 2nd Annual Technical meeting of Kyushu Electric Power Co. Fukuoka, Japan. pp.15-20, (Sept. 28, 2001)

158. Koh-ichi Sakai, Eun-Kyung Lee, **Yasin Khan,** Junya Suehiro and Masanori Hara, "*Numerical Analysis of Free-Conducting Spherical Particle Motion within Non-parallel Plane Electrodes under Higher Harmonics",* Proc. Of 2000 Joint Conf. of Electrical and Electronic Engineers in Kyushu, Fukuoka, Japan. paper No.731, (Sept. 13-14, 2000)

159. Eun-Kyung Lee, Koh-ichi Sakai, **Yasin Khan,** Junya Suehiro and Masanori Hara, "*Observation of Free-Conducting Particle Motion around Spacers under DC Voltage*", Proc. Of 2000 Joint Conf. of Electrical and Electronic Engineers in Kyushu, Fukuoka, Japan. paper No.732, (Sept. 13-14, 2000)

160. Koh-ichi Sakai, **Yasin Khan,** Eun-Kyung Lee, Junya Suehiro and Masanori Hara, "*Numerical Analysis of Free-Conducting Spherical Particle Motion toward Spacer*", Proc. Of 2000 Joint Conf. of Electrical and Electronic Engineers in Kyushu, Fukuoka, Japan. paper No.733, (Sept. 13-14, 2000)

161. Koh-ichi Sakai, Eun-Kyung Lee, **Yasin Khan**, Junya Suehiro and Masanori Hara. "Effect of Spacers on Free-conducting Particle Motion within Diverging Air Gap", Proc. of 2000 Japan-Korea Joint Symposium on Electrical discharges and High Voltage Engineering (ED & HVE), Univ. of Ulsan, Ulsan, Korea. Vol.1, pp.601-1 ~601-4, (5-6 Oct. 2000)

5.3 Books/Book Chapters

1. ***Yasin Khan, et.al.,*** Book chapter titled "***Thermoplastic Nanocomposites and Their Processing Techniques***" in the book "**Thermoplastic - Composite Materials**" edited by Adel Zaki El-Sonbati, *Chapter* 6, pp. 113-130, Intech Publications, ISBN No. 978-953-51-0310-3 (June 2012)

2. ***Yasin Khan, et.al.,*** Book chapter titled "***Harmonics generation, Propagation and Purging Techniques in Non-linear Loads***" in the book "**An Update on Power Quality**" edited by **Dylan Dah-Chuan Lu**, Intech Publications, Chapter 1, http://dx.doi.org/10.5772/51135, ISBN 978-953-51-1079-8 (March, 2013)

3. **Yasin Khan*, et.al.,*** Book chapter titled, "***Electrospun Nanofibers and their Functionalization, in Solvent Extraction, Ion-exchange and adsorption***, ISBN 978-1-62417-887-0, pp. 75-92, **Nova Science Publisher**

4. F. R. Pazheri1, M. F. Othman, N. H. Malik, A. A. Al-Arainy and Y. Khan, "***Optimum Power Dispatch Management in Presence of Renewable Energy and Energy Storage***" Science and Technology Publishing Inc Energy and Power, Available online www.scitecpub.com. ISBN: 978-0-9886890-4-6, PP: 01- 26, Dated: 05/03/2014

Administrative / Post Doctoral Research Experience

Oct. 2014 ~ June 2018	**Member (Working Group)**, Saudi Arabian Standard Organization (SASO), Riyadh, Kingdom of Saudi Arabia. **Responsibilities:** • To make set of legal, administrative and technical regulations and requirements for Saudi Building Code that specify the minimum standards of construction for

	building (***Electrical Installation in Buildings SBC-401***) in order to ensure public safety and health. **** Received "Letter of Appreciation" from SASO on Nov. 19, 2018***
Mar. 2017 ~ till to date	***Technical* Manager,** Saudi Aramco Chair and High Voltage (HV) Laboratory, King Saud University **Responsibilities:** • KSU HV lab is an ISO/IEC 17025 accredited lab. High Voltage laboratory at KSU is extensively engaged in research and development works in the areas of breakdown phenomenon in insulating medias, withstand voltage in different types of air gaps, surface flashover studies on equipment and also electrical interference studies due to discharges from the equipment operating on high voltages. This lab also provides test facilities for testing various HV equipment (Switchgears, circuit breakers, transformers, cables, insulators, bushing, surge arrestors, etc) as per various international standards to electric utilities such as Saudi Electric Company, Oman Electric Power Company. Saudi Aramco, ABB, Schneider and many private companies in the Kingdom as well as in the region.
March 2010 ~ June 2016	**Consultant/Principal Investigator**, Saudi Aramco Co. (Consulting Services Department), Dhahran, Saudi Arabia **Responsibilities:** • High impedance faults (HIF) resulting from medium voltage overhead distribution line conductors represent the most challenging problem. Different HIF detection techniques have been studied by many researchers since late 1970s. Saudi Aramco had faced difficulty in the detection of downed conductor situations for their medium voltage overhead lines located in desert areas due to very high ground resistance values in such locations. Saudi Aramco assigned this challenging task to address this chronic problem. **** Received "US Patent No: 9,310,416" from USPTO on April. 12, 2016***
March 2010 ~ June 2014	**Consultant**/Principal Investigator: National Plan for Development of Science & Technology (NPST) project funded through KACST (King Abdullah City for Science and Technology), Riyadh **Responsibilities:** • Gas Insulated Substations (GIS) are extensively used in transmission and distribution of electrical energy. Such systems use compressed gas (e.g. SF_6) insulation and have many advantages such as compact size, high reliability, non-flammability and maintenance free nature as well as less influence of environmental parameters. The presence of free conducting particles however can seriously degrade the performance of GIS equipment. Therefore, in order to increase the reliability of GIS equipment proper detection of conducting particles and the analysis of motion behavior of free conducting particles under practical conditions is of great importance to the design engineer. The objective of the research is to study corona and partial discharge (PD) characteristics of free/fixed conducting particles. These characteristics will be useful to devise suitable methods of detection of contaminating particles in the GIS equipments. Moreover, some efficient method of particle deactivation and suitable preventive maintenance will be suggested which will help in improving the reliability of GIS equipment. Therefore, this research project will provide useful information and tools that will help in improving the reliability of GIS equipment.

2007 ~ June 2020	**Member, Accreditation Committee (ABET)** at Department of Electrical Engineering, College of Engineering, King Saud University, Riyadh, Kingdom of Saudi Arabia **Responsibilities:** • This professional position is responsible for the implementation/coordination of the accreditation process in accordance with established ABET standards, policies, and procedures. The Chairman review, monitor, and evaluate the department programs to assure quality education and compliance with accreditation standards. The position reports directly to the Vice Dean (Quality) and ultimately to the Dean.
2009 ~ June 2020	**Member, Accreditation Committee (NCAAA)** at Department of Electrical Engineering, College of Engineering, King Saud University, Riyadh, Kingdom of Saudi Arabia **Responsibilities:** • This professional position is responsible for the implementation/coordination of the accreditation process in accordance with established NCAAA standards, policies, and procedures. The Chairman review, monitor, and evaluate the department programs to assure quality education and compliance with accreditation standards. The position reports directly to the Vice Dean (Quality) and ultimately to the Dean Other responsibility includes: Review, monitor, and evaluate the department programs Consolidate, and edit groups reports for review and evaluation by the ABET and NCAAA Commission, etc
September 2007 ~ June 2017	**Member,** Graduate Students Admission Committee
September 2017 ~ till todate	**Member,** Graduate students Examination Committee

Execution of Major Research Projects /Grants

Major Research Projects Completed	
2010~2016	- **Project Name:** *Downed Conductors Detection* - **Position:** Consultant/Principal Investigator - **Sponsor:** Saudi Aramco Chair in Electrical Power (Research project funded through a grant from Saudi Aramco) - **Project Duration:** 5 years (2009~2014). Further Extended by about 18 months. - **Amount:** SR 3.9Million. - **Status:** The project is complete. - **Achievements:** Saudi Aramco assigned challenging task to detect the chronic problem of high Impedance fault in their MV distribution network. After the detailed study of the system, *we developed a new technique for such fault detection and received a* ***US Patent No: 9,310,416*** *(April, 2016). This patent is also being* ***nominated*** *for* ***King Salman Award*** *in July 2018.* -
Feb 2014 ~ Dec. 2016	- **Project Name:** *Non-tripping of feeders in SEC MV distribution circuits.* Project No. SDS-505 - **Position:** Consultant /Principal Investigator

	- **Sponsor:** Saudi Electricity Co., Riyadh, Kingdom of Saudi Arabia - **Project Duration:** 2 years. - **Amount:** SR 1.510Million. - **Status:** The project is complete. - **Achievements:** Successfully completed this research study and developed an easy state of the art solution of this chronic problem and successfully practically implemented in the SEC medium voltage distribution network. -
Oct 2012 ~ Dec. 2015	- **Project Name:** *Reliability Improvement of GIS equipment"* Project No. ENE216-02-08 - **Position:** Consultant/Principal Investigator - **Sponsor:** National Plan for Development of Science & Technology (NPST) project funded through KACST (King Abdullah City for Science and Technology), Riyadh - **Project Duration:** Duration of project is 2 years - **Amount:** SR 980k. - **Status:** The project is successfully complete. - ***Achievements*:** Many original research papers were published in IEEE/IET transactions and a comprehensive final report was submitted to KACST
Oct 2005 ~ Dec. 2006	- **Project Name:** *Effect of Thermo-Electrical Stresses and Ultraviolet Radiations on Polymeric Insulators Project No. EE-18/26/27* - **Position:** Principal Investigator - **Sponsor:** College of engineering (KSU) Research Center project funded through a grant from SABIC - **Project Duration:** Duration of project is 1 year - **Amount:** SR 42k. - **Status:** The project is successfully complete. - ***Achievements*:** Many original research papers were published and a comprehensive final report was submitted to Research center .
Oct 2007 ~ Dec. 2008	- **Project Name:** "*Impact of Solar radiation and Heat on the hydrophobicity of HV Polymeric Insulators Project No. 18/428, 1427-1428* - **Position:** Principal Investigator - **Sponsor:** College of engineering (KSU) Research Center project funded through a grant from SABIC - **Project Duration:** Duration of project is 1 year - **Amount:** SR 42k. - **Status:** The project is successfully complete. - ***Achievements*:** Research Centre, College of Engineering, King Saud University, awarded ***Best Research Project Report for the year 2008/2009***

Experience with International Bodies

2007~	- **Visiting Faculty Member,** Kyushu University, Fukuoka, Japan Deliver lectures to graduate students and carry out joint research
2009~2012	- **Visiting Faculty Member,** Kitakyushu Institute of Technology, Kitakyushu, Japan, deliver lectures to graduate students and carry out joint research
2014	- **Guest Speaker** at Kumamato University, Kumamoto, Japan
2015~todate	- **Research Team member,** Department of Physics (Electromagnetic

Group) , Univ. of Agriculture, Faisalabad, Pakistan

2007-2010 - **Guest Speaker** at King Fahd University Of Petroleum and Minerals (KFUPM), Dhahran, Kingdom of Saudi Arabia

2000~2018 - **Seminar Presentations** (Details of the papers presented are listed in the research publication list mentioned before in this CV)

2000 …… Fukuoka Japan

2001…….. Saga (Japan), Shikoku (Japan), Nagoya (Japan), Kumamoto (Japan), **Miyazaki** (Japan)

2002 ……. Kumamoto (Japan), Nagasaki (Japan), Tokyo (Japan), Fukuoka (Japan), **Soongsil (South Korea)**, **Yokohama (Japan)**

2003 ……. Fukuoka (Japan), Sandai (Japan), Nagasaki (Japan) **Delft (Netherlands),**

2006 ……...**Peshawar (Pakistan)**

2007. ……..Manama (Bahrain),

2009 …….. Manama (Bahrain),

2010 ……. Fukuoka (Japan), Doha (Qatar),

2011 ……. Doha (Qatar), UAE

2012 ……. Dhahran (KSA)

2017 …….. Jeddah (KSA)

Experience of Organizing Events (Workshops/Seminars/Conferences)

- **Organized** short term **training courses/workshops** from time to time for Engineers working in Power companies (Such as SEC, Saudi Aramco, SABIC) in Kingdom of Saudi Arabia related to
  - Ground Grid Condition Assessment Using Smart Ground Multi meter (23~27Th Dec., 2018)
  - Power Transformers (2008, 2010)
  - Power Cables and its Diagnostics (2009, 2011, 2013, 2015, 2017)
  - High Impedance Fault Protection (2016)
  - Grounding (2016, 2019)
  - Switchgear, etc. (2012, 2014)
- **Steering Committee member:** in many international conferences such as:
  - Asian Conference on Electrical Discharges (ACED)
  - IEEE TENCON
  - International Conf. on High Voltage Engineering (ISH)
  - International Conference on High Voltage Engineering and Application (ICHVE),
- **Organizing committee member** of IEEE, International Conference on Emerging Technology (ICET) at Peshawar 2005
- **Organizing committee member** of IEEE, TENCON 2010, Fukuoka, Japan (21st -24th, November 2010)
- **Session Chair,** IEEE Int. Conf. on Emerging Technology (ICET) 2005
- **2005-Present**
  Reviewer: Journals
  - IEEE transaction on Dielectrics and Electrical Insulation , (Publisher, IEEE)

- IEEE transaction on Power System Components, (Publisher: IEEE)
- IEEE transaction on Industrial Electronics, (Publisher: IEEE)
- Electrical Engineering (Publisher: Elsevier)
- International journal of system sciences, (Publisher: J. Wiley & Sons)
- Different Journals of IEEJ related to High Voltage and Electrostatics (Japan)
- IET,
- Journal of Physics D. Applied,
- Electric Power System Research (Elsevier)
- Journal of King Saud University – Engineering Sciences
- Arabian Journal of Engineering
- Turkish Journal of Electrical Engineering
- International Journal of Emerging Electric Power Systems,
- Electrostatics.

  and many others.

Training/Courses/Diploma:

Sr. No.	Training/Course/ Diploma	Field	Duration of Training/Course /Diploma	Training Institution	Year
1	Computer Training Course	Computer software	2 Months	Jawaid Azfar Computer Center (JACC), Planning Commission, Islamabad	1995
2	Project Planning, Appraisal and Implementation Techniques	Project Appraisal	4 weeks	Pakistan Institute of Development Economics (PIDE),	1995
3	Economic Planning and Management		6 weeks	Pakistan Planning and Management Institute (PPMI), Islamabad	1997
4	Report writing Skills		4 days	Sustainable Development Policy Institute, Islamabad,	1998
5	Budget Procedures		2 weeks	Secretariat Training Institute, Islamabad	1998
6	Energy Conservation		8 Weeks	Japan International Cooperation Agency (JICA), Tokyo, Japan,	1998
7	Japanese language General course		8 Weeks	Japan International Cooperation Agency (JICA), Tokyo, Japan,	1998
8	Use of IAEA's Decades Computer Tools and FINPLAN Models to analyze the Role of Nuclear Power		3 Weeks	PAEC and IAEA, Islamabad,	1999
9	Japanese language Intensive course		6 Months,	Kyushu University, Fukuoka, Japan,	2000
10	Internal Auditing		1 day	QSCert, Riyadh, Saudi Arabia,	2010