



# Dr. Zahid Raza

Associate Professor  
 Department of Mathematics, College of Sciences,  
 University of Sharjah, P. O. Box: 27272- Sharjah,  
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## Academic Positions

• Associate Professor	01-09-2015- till	Department of Mathematics, College of Sciences, University of Sharjah, Sharjah , UAE.
• Associate Professor	01.01.2014- 01-09-2015	National University of Computer and Emerging Sciences, Lahore Campus, Pakistan
• Assistant Professor	20.02.2010- 31.12.2013	National University of Computer and Emerging Sciences, Lahore Campus, Pakistan
• Post Doc Fellow	01.04.2009- 19.02.2010	Abdus Salam School of Mathematical Sciences, G.C. University, Lahore, Pakistan
• Post Doc Fellow	10.10.2008- 30.03.2009	Institute of Mathematics Academy of sciences of the <b>Republic Czech</b>
• Post Doc Fellow	10.05.2008- 09.10.2008	Abdus Salam School of Mathematical Sciences, G.C. University, Lahore, Pakistan

## Short Term Visiting Fellowships

June-July, 2011	Visiting Fellow	ICTP, Trieste, Italy

## Teaching

### Post-Graduate and Undergraduate Mathematics Courses

- Introduction to Complex Analysis
- First Course in Functional Analysis
- Advanced Mathematical Inequalities
- Introduction to Measure Theory
- Introduction to Algebraic Geometry
- First Course in Number Theory
- Combinatorics
- Differential Equations and Applications
- Mathematical Methods

- Engineering Mathematics
- Calculus with Analytic Geometry
- Linear Algebra

## Educational Background

• PhD	2008	Government College University, Lahore, Pakistan Supervisor: Prof. Dr. Alexandru Dimca(France)
• M.Sc	2003	University of Punjab, Lahore, Pakistan
• B.Sc	2001	University of Punjab, Lahore, Pakistan

## Current Areas of interest in Mathematics

Computational Chemical Graph Theory, Topological indices of graphs, Combinatorics and Graph Theory

### Research Projects

1. **Competitive Research Project** No.(1802144068): Molecular Descriptors for Special Nanostructures, University of Sharjah, UAE
2. Seed Research Project No.(1602144025-P): On Topological Indices of Certain Nanostructures, University of Sharjah, UAE

## Scientific Publications

### Research Papers Published in International refereed Journals

#### Accepted Papers

1. A. Kashif, **Z. Raza** and Imran Anwar Algebraic characterization of the  $SSCA_s(G_{\{n,r\}})$ , **JCMCC**, to appear
2. M. S. Bataineh, N. Siddiqui, **Z. Raza**, Edge metric dimension of k- multi wheel graph, **Rocky Mountain J. Math.**, to appear
3. N. Saleem, M. Abbas, **Z. Raza**, Fixed fuzzy point results of generalized Suzuki type F-contraction mappings in ordered metric spaces, **Georgian Mathematical Journal**, DOI: <https://doi.org/10.1515/gmj-2017-0048>

#### 2019

1. A. Ali, **Z. Raza**, A. A. Bhatti, Some vertex-degree-based topological indices of cacti, **Ars Combinatoria**, 144, 195-206, (2019)
2. N Saleem, M Abbas, B Ali, **Z Raza**, Fixed Points of Suzuki-Type Generalized Multivalued  $(f, \theta, L)$ - Almost Contractions with Applications, **Filomat** 33 (2), (2019)
3. **Z Raza**, ST Tehrim, Two impartial games on finite p-groups, **Journal of Discrete Mathematical Sciences and Cryptography** 22 (1), 45-58, (2019)
4. **Z. Raza**, N. Siddiqi, The edge metric demension of Cayley graphs and its Barycentric subdivisions, **Nonlinear Functional Analysis and Applications** 24 (4), 801-811 (2019)

## 2018

5. **Z. Raza**, H. M. Malik, Solution of Certain Pell Equations, **Asian-European J. Math.**, Vol. 11, no. 2 [17 pages] DOI: <https://doi.org/10.1142/S1793557118500560> (2018).
6. **Zahid Raza**, S. Iqbal, On the sandpile group of a family of graphs, **JP Journal of Algebra, Number Theory and Applications**, 40 (3), 229-240(2018)
7. **Z. Raza** and M. Ahmad, Unitary Unit subgroup of Group Algebra  $F_2^n(QD_{16})$ , **J. Algebra Appl.** Vol.17, no.4 [7 pages]DOI: 10.1142/S021949881850060(2018)
8. **Z. Raza**, A. Kashif, I. Anwar, On algebraic characterization of SSC of the Jahangir's graph  $J_{n,m}$ . **Open Mathematics**, 16(1), 250-259(2018).

## 2017

1. **Z. Raza**, M. T. Rahim, S. Tariq, Sandpile model on subdivided wheels  $W_{\{n,l\}}$ , **Utilitas Mathematica**, Vol. 105, Sep (2017), 291-302
2. A. Ali, A. A. Bhatti **Z. Raza**, Further Inequalities between Vertex-Degree-Based Topological Indices, **International Journal of Applied and Computational Mathematics**, Vol. 3 no. 3, 1921-1930, DOI:10.1007/s40819-016-0213-4(2017)
3. S. Akhter, M. Imran, **Z. Raza**, Bounds for the general sum-connectivity index of composite graphs, **Journal of Inequalities and Applications**, Vol. 2017 :76, DOI 10.1186/s13660-017-1350-y (2017)
4. A. Ali, **Z. Raza**, On construction of some new types of semigroups, **Journal of Semigroup Theory and Applications**, Article ID 4, (2017)
5. Ali, **Z. Raza**, On large arbitrary left path within a semigroup **Journal of Semigroup Theory and Applications**, Article ID 3, (2017)

## 2016

1. **Z. Raza**, The edge version of geometric arithmetic index of polyomino chains of 8-cycles and arbitrary carbon nanocones, **Journal of Computational and Theoretical Nanoscience**, Vol. 13, 1–5, 2016
2. **Z. Raza**, N. Saleem, M. Abbas, Optimal coincidence points of proximal quasi-contraction mappings in non-Archimedean fuzzy metric spaces, **The Journal of Nonlinear Science and Applications**, Vol. 9, no.6, 3787-3801(2016).
3. A. Ali, **Z. Raza**, A. A. Bhatti, Extremal pentagonal chains with respect to degree-based topological indices, **Canadian Journal of Chemistry**, Vol. 94, no. 10 , 870-876(2016).
4. S. Akhter, M. Imran, Z. Raza, On the general sum-connectivity index and general Randic index of cacti **Journal of Inequalities and Applications**, Vol. 2016:300, DOI 10.1186/s13660-016-1250-6.(2016)
5. N. Saleem, M. Abbas and **Z. Raza**, Optimal Coincidence Best Approximation Solution in Non-archimedean Fuzzy Metric Spaces, **Iranian Journal of Fuzzy Systems** Vol. 13, no. 3, 113-124(2016).
6. **Z. Raza**, A. A. Bhatti, A. Ali, More on Comparison Between First Geometric-Arithmetic Index and Atom-Bond Connectivity Index, **Miskolc Mathematical Notes**, Vol. 17, no. 1, 561–570(2016).
7. Ali, **Z. Raza**, A. A. Bhatti, bond incident degree (BID) indices for some nanostructures , **Optoelectronics Adv. Materials-Rapid Commun**, Vol. 10, no. 1-2, 108-112(2016).
8. Ali, **Z. Raza**, A. A. Bhatti, Bond Incident Degree (BID) Indices of Polyomino Chains: A Unified Approach, **Applied Mathematics and Computation**, Vol.287(9), 28–37, (2016)

9. A. Ali, **Z. Raza**, A. A. Bhatti, On the Augmented Zagreb Index, **Kuwait Journal of Science** 43 (2) 123-138, (2016).
10. A. Ali, A. A. Bhatti, **Z. Raza**, The augmented Zagreb index, vertex connectivity and matching number of graphs, **Bull. Iranian Math. Soc.** Vol. 42, no. 2, 417-425, (2016)
11. **Z. Raza**, H. M. Malik, Solution of Certain Quartic Equations, **Science International**, 28(4), 3609-3612, (2016).
12. Ali, A. A. Bhatti, **Z. Raza**, Topological study of tree-like polyphenylene systems, spiro hexagonal systems and polyphenylene dendrimer nanostars, **Quantum Matter**, Vol. 5, no. 4, 534-538(2016).

## 2015

1. **Z. Raza**, S. A. Waheed, GCED and reciprocal GCED matrices, **Haceteppe Journal of Mathematics and Statistics**, Vol. 44 (3) , 633 – 640 (2015).
2. I. Anwar, **Z. Raza**, Quasi-Linear Quotients and Shellability of Pure Simplicial Complexes, **Communications in Algebra**, Vol. 43, no.11, 4698-4704, DOI: 10.1080/00927872.2014.937952 (2015)
3. I. Anwar, **Z. Raza** and A. Kashif, Spanning simplicial complexes of uni- cyclic graphs, **Algebra Colloq**, Vol., 22, no. 4, 707-710, DOI: 10.1142/S1005386715000590 (2015)
4. A. Ali, A. A. Bhatti, **Z. Raza** Vertex-degree-based topological indices of a smart polymer and some dendrimer nanostars, **Optoelectronics Adv. Materials-Rapid Commun.**, Vol. 9, no. 1-2, 256-259, (2015).
5. A. Ali, A. A. Bhatti, **Z. Raza**, Some vertex-degree-based topological indices of polyomino chains, **J. Comput. Theor. Nanosci.**, Vol., 12, no. 9, 2101-2107, (2015).
6. M. F. Shamir, **Z. Raza**, Locally Rotationally Symmetric Bianchi Type I Cosmology in  $f(R)$  Gravity, **Can. J. Phy.**, Vol., 93, no. 1, 37-42, (2015).
7. M. F. Shamir, **Z. Raza**, Cylindrically symmetric solutions in  $f(R, T)$  gravity, **Astrophys. Space Sci.** , Vol. 356, no.1, 111-118, (2015).
8. M. F. Shamir, Z. Ahmad, **Z. Raza**, Gravitational Dust Collapse in  $f(R)$  Gravity , **Int. J. Theo. Phy.**, Vol., 54, no. 5, 1450-1460, (2015).
9. N. Saleem, B. Ali, M. Abbas, **Z. Raza**, Fixed points of Suzuki type generalized multi-valued mappings in fuzzy metric spaces with applications, **Fixed Point Theory App.** 2015:36 DOI: 10.1186/s13663-015-0284-7, (2015).
10. **Z. Raza**, On the critical group of certain subdivided wheel graphs, **Punjab University Journal of Mathematics**, Vol.47(2), 57-64 (2015)
11. **Z. Raza**, H. M. Malik, Solution of the Diophantine Equation  $x_1x_2x_3\dots x_{m-1}=z^n$ , **Punjab University Journal of Mathematics**, Vol.47(2), 83-88 (2015)
12. **Z. Raza** and R. Ali, On the Unitary Units of The Group Algebra  $F_2^kQ_{16}$ , **Asian-European J. Math.**, Vol. 8, no. 1 [7 Pages] DOI: 10.1142/S1793557115500138 (2015).
13. **Z. Raza**, A. Iqbal, Infinite log-concavity and  $r$ -factor, **Math. Sci. Letter**, Vol.4, no. 2, 1-7, (2015).
14. **Z. Raza**, S. A. Waheed, GCED and reciprocal LCEM matrices, **Notes on Number Theory and Discrete Mathematics**, Vol. 21, no. 1, 79-85, (2015).
15. **Z. Raza**, M. A. Ali, On The Norms of Some Special Matrices With Generalized Fibonacci Sequence, **J. Appl. Math. & Informatics** Vol. 33, no. 5 - 6, 593 – 605, (2015).
16. **Z. Raza**, S. A. Waheed, On the divisibility of LCEM and GCED matrices, **FAST-NU Research Journal**, Vol. 1, no. 1, 1-7, (2015).
17. **Z. Raza**, W. Shahzad, Counting of Binary Matrices Avoiding some  $2 \times 2$  Matrices, **VFAST Transactions on Mathematics**, Vol. 6, no.1, 1-6, (2015).

## 2014-2013

1. **Z. Raza** and S. M. Waheed, On the sandpile model of modified wheels I, **Int. J. Nonlinear Sci. Numer. Simul.**, Vol. 15, no. 3-4, 207-213,(2014).
2. M. F. Shamir, **Z. Raza**, Dust Static Cylindrically Symmetric Solutions in  $f(R)$  Gravity, **Commun. Theor. Phy.** Vol. 62, No. 3, 348--352, (2014).
3. A. Kashif, I. Anwar and **Z. Raza**, On the algebraic study of spanning simplicial complexes of r-cyclic graphs  $G_{n,r}$ , **ARS Comb.**, 115, 89-99 (2014).
4. N. Khan, M. T. Rahim and **Z. Raza**, A note on degree distance of 4-cyclic graphs, **Utilitas Math.**, Vol. 93, no. 2, 109-116, (2014).
5. **Z. Raza** and M. Ahmad, On the Structure of the Unitary Subgroup of the Group Algebra  $F_2^q(D_2^n)$  **J. Algebra Appl.** Vol.13, no.4 [8 pages]DOI: 10.1142/S0219498813501399 (2014) .
6. A. Ali, A. A. Bhatti **Z. Raza** , A Note on The Zeroth-Order General Randic Index of Cacti and Polyomino Chains, **Iranian J. Math. Chem.**, Vol. 5, no.2, 143-152, (2014).
7. **Z. Raza** and M. Ahmad, On the unitary units of the group algebra  $F_2^m(M_{16})$ , **J. Algebra Appl.** Vol.12, no.8 [7 pages] DOI: 10.1142/S021949881350059X (2013)
8. **Z. Raza** and S. Faizi, Commuting graph of dihedral type groups, **Appl. Math. E-Notes**, Vol.13, 221-227, (2013).
9. **Z. Raza** and S. Faizi, None commuting graph of a finitely presented group, **Sci.Int.(Lahore)**, Vol.25, no.4, 883-885, (2013).
10. **Z. Raza**, On the critical group of a family of graphs, **Novi Sad J. Math.**, Vol. 43, no. 1, 113-120(2013).
11. H. Bashir and **Z. Raza**, On the fuzzy subgroups of finite Abelian groups, **Int. Math. Forum**, Vol. 8, no. 4, 181-190, (2013).
12. **Z. Raza**, M. T. Rahim and A. N. Bajwa, Parity of the Catalan Numbers and Related Sequences, **INFORMATION**, Vol.16, no.11, 7811-7816, (2013).

## 2012

1. A. Iqbal, S. Nazir, **Z. Raza** and Z. Saleem, Generalization of Nekrasov-Okounkov identity, **Ann. Comb.**, Vol. 16, no. 4, 745-753, (2012).
2. **Z. Raza** and S. Nazir, On the elliptic curves arising from 4-bar mechanisms, **Rocky Mountain J. Math.**, Vol. 42, no.4, 1359-1365, (2012).
3. **Z. Raza** and N. Saleem, The critical group of  $C_{mvP_2}$ , **Sci.Int.(Lahore)**, Vol, 24, no.4, 333-336, (2012).
4. **Z. Raza** and S.A.Waheed, On the critical group of  $W_{4n}$ , **J. Appl. Math. & Informatics**, Vol. 30, no.5-6, 993-1003, (2012).
5. Z. Raza and S. A. Waheed, LCEM and Reciprocal GCED Matrices, **Int. J. Pure and Applied Math.**, Vol. 80, no.5, 647-655, (2012).
6. B. Humera and **Z. Raza**, On the subgroup lattice of quasihedral group  $Q_{32}$ , **Int. J. Algebra**, Vol. 6, no.25, 1221 – 1225, (2012).

## 2011-2008

1. **Z. Raza**, Topology of Plane Curves and Discriminant, **Bull. Math. Soc. Sc. Math. Roumanie**, Vol. 54, 281-293, (2011).
2. **Z. Raza**, Broughton Polynomials and Characteristic Varieties, **Studia Sci. Math Hungarica**, Vol.47, 214-

- 22, (2010).
3. S. Nazir and **Z. Raza**, Admissible local systems for a class of line arrangements, **Proc. Amer. Math. Soc.** Vol.135 no. 4, 1307-1313, (2009).
  4. **Z. Raza**, Contractible fibers of polynomial functions, **J. Prime Research Math.**, Vol.4, 148-153, (2008).

### Research Papers Submitted in International refereed Journals

1. **Z. Raza**, A. Rana,  $(1-2u^k)$ -constacyclic codes over  $F_p + uF_p + u^2F_p + \dots + u^kF_p$ , [arXiv:1512.02332](https://arxiv.org/abs/1512.02332)
2. **Z. Raza**, S. A. Waheed, LCEM and reciprocal LCEM matrices
3. **Z. Raza**, M. Riaz, M. A Ali, On some inequalities on the norms of special matrices with generalized Tribonacci and generalized Pell Padovan sequences, [arXiv:1510.1369](https://arxiv.org/abs/1510.1369)

### Research/Dissertation Supervision(PhD Theses Supervision)

• 2010-2014	Noether Symmetries and Exact Solutions for Physical Models on Curved Surfaces (Ms. Sumaira Sharif, HEC Scholar) Thesis defense: 01-10-2014, (Supervisor).
• 2011-2015	Exact Solutions and Symmetries in $f(R)$ Gravity (Mr. Farasat Shamir) Thesis defense: 06-06-2015, (Supervisor).
• 2011-2015	Algebraic Characterization of Spanning Simplicial Complexes (Mr. Agha Kashif Khan) Thesis defense: 28-07-2015, (Supervisor).

### Research/Dissertation Supervision(MS Theses Supervision)

• 2011	Combinatorial Aspects of Semigroups (Mr. Ajmal Ali)
• 2011	On the Critical Group of $C_{nv}P_2$ (Mr. Naeem Saleem).
• 2011	Party of Catalan Numbers and Related Sequences (Mr. Ali Nawaz Bajwa).
• 2011	Structure and Divisibility Properties of GCED and LCEM Matrices (Ms. Seemal Abdul Waheed).
• 2012	Fuzzy Subgroups of some Finite Groups (Ms. Humaira Bashir).
• 2012	Graphs Associated with Dihedral type Groups (Mr. Shahzad Faizi).
• 2012	Infinite Log-Concavity and $r$ -Factor (Mr. Anjum Iqbal).
• 2012	The Structure of the Unitary Units of some Finite Group Rings (Mr. Maqsood Ahmad).
• 2012	Critical Groups of some Families of Graphs (Mr. Mohammad Aamer).
• 2013	Subgroup Commutativity and $S$ -Commutativity degrees of Finite Groups (Mr. Mohammad Shahbaz)
• 2013	Conserved Quantities of the Different Line Elements via Noether's Approach (Mr. Syed Tauseef Saeed)

• 2013	On the Structure of Involutions and Symmetric Spaces of Quasi-Dihedral Groups (Mr. Imran)
• 2013	Sandpile Model on Subdivided Wheels (Ms. Saleha Tariq)
• 2013	Unitary Unit Group of Finite Group Algebra (Mr. Riasat Ali)
• 2013	Subgroups Lattice and Fuzzy Subgroups of Finite Groups (Mr. Nadeem Ahmad)
• 2013	Invariant Polynomial Transformations of Integer Sequences ( Mr. Qasim Noor)
• 2013	On Generalized Fibonacci Quaternions (Ms. Laila Yawar)
• 2014	Solutions of some Diophantine Equations (Ms. Hafsa Masood Malik)
• 2014	On the Norms of Special Matrices with Integer Sequences (Mr. Muhammad Asim Ali)
• 2015	Algebraic Properties of Quasi-Dihedral Group (Mr. Jamshed Afzal)
• 2015	On the Critical Group of a Family of Graphs (Ms. Sidra Iqbal)
• 2015	Achievement and avoidance games on finite non-Abelian groups (Ms. S. Tayyba Tehrim)
• 2015	Fixed point of expansive and non-expansive mappings in Banach space (Mr. Shahid Bashir)
• 2016	Constacyclic codes over some finite rings (Ms. Amrina Rana)
• 2016	Factorization of Group Determinant of a Non-Abelian Group (Mr. Muzamil Ejaz)

## Research Collaborators

- Dr. Kinkar Ch. Das (Sungkyunkwan Uni., Korea)
- Dr. Aamer Iqbal (USA/Pak)
- Dr. M. Imran, (UAEU, UAE)
- Dr. Akbar Ali, (UOG, Pak)
- Dr. Imran Anwar, (COMSATS, Pak)
- Dr. Imran Javaid, (BZU, Pak)
- Dr. Akhlaq Ahmad Bhatti, (NUCES, Pak)

## External Examiner and Professional Activities

- External Examiner in Mathematics at the Bahauddin Zakaria University, Multan, Pakistan

- External Examiner in Mathematics at COMSATS Institute Of Information Technology, Lahore, Pakistan
- External Examiner in Mathematics at the University of Education, Lahore, Pakistan
- Member of the organizing committee of the 6<sup>th</sup> World Conference on 21<sup>st</sup> Century Mathematics 2013, March, Pakistan.

## Administration

- Deputy Controller of Examination in NUCES Lahore(2010-2014)
- Member of the Library Committee at NUCES Lahore(2010-15)
- Member of the Interview committee for PhD Admissions at NUCES Lahore (2010-).
- Advisor of the Support Society in NUCES Lahore(2012-2014)
- Coordinate of the Graduate Program at NUCES Lahore (2010-15).

## Referee

- Invited referee for the following international journals
- World Applied Sciences Journal
  - Science International (Lahore)
  - Journal of Prime Research in Mathematics
  - Journal of Chemometrics
  - Journal of Applied Mathematics and Computing
  - Canadian Journal of Chemistry
  -

## Conference/Workshops/Summer Schools Attended

• 2004	1 <sup>st</sup> International Conference on 21 <sup>st</sup> Century Mathematics, Lahore, Pakistan, March 18-20, 2004
• 2005	2 <sup>nd</sup> International Conference on 21 <sup>st</sup> Century Mathematics, Lahore, Pakistan, March 4-6, 2004
• 2005	Hyperplane arrangements and Constructible sheaves in Constanza (Romania) organized by CIMPA in September 2005.
• 2005	LUMS International Conference on Mathematics and its Applications in Information Technology, Lahore, Pakistan, November 27-30, 2005.
• 2006	New trends in Singularity Theory in Madrid (Spain) organized by CIMPA in August 2006.
• 2007	Configuration space and Applications in Lahore (Pakistan) organized by CIMPA in February 12-18, 2007.
• 2007	3 <sup>rd</sup> International Conference on 21 <sup>st</sup> Century Mathematics, Lahore, Pakistan. March 4-7, 2007 (Presented a Paper)
• 2007	Hyperplane arrangements and Singularity Theory in Istanbul (Turkey) organized by CIMPA in June 2007.
• 2007	1 <sup>st</sup> Mathematics Conference at CASPAM Bahauddin Zakariya University, Multan-Pakistan,



	July 27-28, 2007(Presented a Paper).
• 2007	8 <sup>th</sup> International Pure Mathematics Conference on Algebra, Analysis & Geometry <i>Islamabad</i> , August 24-26, 2007(Presented a Paper).
• 2008	LUMS 2 <sup>nd</sup> International conference on mathematics and its applications in information technology on March 9-12, 2008(Presented a Paper).
• 2008	Discrete and Computational Geometry, Lahore (Pakistan) organized by CIMPA in March 23-30, 2008.
• 2009	The 29 <sup>th</sup> Winter School Geometry and Physics, Srni (Czech Republic), January 17 - 24, 2009 (Presented a Paper).
• 2009	The 2 <sup>nd</sup> MSJ-SI conference on arrangements of hyperplanes in Sapporo ( Japan) August 1-August 13, 2009
• 2010	Summer school and conference on Hodge theory and related topics ICTP (Italy), 14 June 2010- 02 July 2010.
• 2010	11 <sup>th</sup> International Pure Mathematics Conference on Algebra, Analysis & Geometry Islamabad, Pakistan, August 06-08, 2010(Presented a Paper).
• 2012	Seminar Series NUST- Center for Advanced Mathematics and Physics, Islamabad, November, 07, 2012(Presented a Paper).
• 2012	Workshop on Algebraic and Topological Aspects of Arrangements, LUMS, Lahore, Pakistan, November, 09-10, 2012(Presented a Paper).
• 2014	International Workshop on Discrete Structure (IWODS14), NUST, Islamabad, Pakistan, March, 5-7, 2014(Presented a Paper).
• 2014	Symposium on Mathematics and Statistics, COMSATS, Lahore, May 03, 2014(Presented a Paper).
• 2014	Conference on Mathematics and its Applications-2014 (CMA-2014), Kuwait, November 14 - 17 (2014) Kuwait(Presented a Paper).
• 2015	1st UMT National Conference on Pure and Applied Mathematics, Lahore Pakistan, March 7-8, 2015(Presented a Paper).
• 2016	1st UMT International Conference on Pure and Applied Sciences, Lahore Pakistan, March 5-7, 2016(Presented a Paper).
• 2016	14th UAE Math Day New York University Abu Dhabi Campus, March 12, 2016 (Presented a Paper).
• 2016	Seminar Series of the department of mathematics at American University of Sharjah, UAE, April, 12, 2016(deliver a talk).
• 2016	2nd International workshop on modern aspects of algebra and graph theory, Comsats Lahore, Pakistan November 2-3, 2016 (Presented a Paper).
• 2016	2nd International Conference in Pure and Applied mathematics, University of Sargodha, Pakistan, November 26-27, 2016 (as <b>Keynote Speaker</b> ).
• 2018	UAE Math Day Conference American University of Ras Al Khaimah, UAE April 14, 2018.

	(Presented a Paper).
• 2018	4 <sup>th</sup> UMT International Conference on Pure and applied Mathematics UMT Lahore, Pakistan March 31-April 2, 2018 (as <b>Keynote Speaker</b> ).
• 2018	2nd International Conference of Mathematical Sciences, (ICMS 2018), 31 July 2018 – 6 August 2018, Maltepe University, Turkey. (Presented a Paper).
• 2018	2018 International Conference on Mathematics and its Applications, GCU Lahore, Pakistan, November 13-15, 2018(as <b>Keynote Speaker</b> ).
• 2019	17th UAE Math Day American University of Sharjah, UAE, March 16, 2019, AUS, UAE (Presented a Paper).
• 2019	50 <sup>th</sup> Southeastern International Conference on Combinatorics, Graph Theory, and Computing (SEICCGTC) March 4-8, 2019, Florida Atlantic University, FL. USA. (Presented a Paper).

## Conferences/Workshops Organized

- Member of the organizing committee of the 3<sup>rd</sup> International Mathematics Spring School in Applied Mathematics, April, 11-12, 2020 at **University of Sharjah, UAE**.
- Conference Chair of the 2<sup>st</sup> International Mathematics Spring School in Pure Mathematics, March, 24-25, 2019 at **University of Sharjah, UAE**.
- Member of the organizing committee of the 1<sup>st</sup> International Mathematics Spring School in Applied Mathematics, March, 25-27, 2018 at **University of Sharjah, UAE**.
- Member of the Scientific committee of the 2<sup>nd</sup> and 3<sup>rd</sup> International Conference on Combinatorics, Cryptography and Computation Iran University of Science and Technology, Tehran, Iran December-November, 2017-2018.
- Conference chair of the 15<sup>th</sup> UAE Math Day, **University of Sharjah, Sharjah**, March 11<sup>th</sup> 2017.
- Member of the organizing committee of the 6<sup>th</sup> World Conference on 21<sup>st</sup> Century Mathematics 2013, March, Pakistan.
- Member of the organizing committee of the Workshop on Algebraic and Topological Aspects of Arrangements, LUMS, Lahore, Pakistan, November, 09-10, 2012

## Contact

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