

## CURRICULUM VITAE

### PERSONAL INFORMATION

Name: Dr. Rezwan Ul Shaban  
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Institution Email: rezwan.scholar@kashmiruniversity.net  
Birth date: October 25, 1989  
Citizenship: Indian  
Mobile Number: 7006787760

### OBJECTIVE

- To get advanced education and training in the field of Mathematical sciences.
- To eradicate the phobia towards mathematics among the students.
- To develop the Lab oriented curriculum of mathematics in lower classes.
- To contribute in mathematics where the results reflect in our society.

### PRESENT STATUS

Assistant Professor Mathematics Directorate of Distance Education,  
University of Kashmir, Srinagar -190006

### SPEACIALIZATION

Graph Theory

### FIELDS OF INTEREST

Graph Theory, Spectral Graph Theory, Algorithms, Algebraic Graph Theory and Combinatorics.

## **ACADEMIC DETAILS**

<b>Degree/Examination</b>	<b>Institute</b>	<b>Year</b>	<b>Division</b>
Integrated Ph.D.	University of Kashmir	2021	Awarded
Master of Science (Mathematics)	University of Kashmir	2012	1 <sup>st</sup>
Bachelor of Science (Non-Medical)	University of Kashmir	2010	1 <sup>st</sup>

## **PROFFESIONAL COURSES:**

<b>Degree/Examination</b>	<b>Institute</b>	<b>Year</b>	<b>Division</b>
M.Ed.	University of Kashmir	2014	1 <sup>st</sup>
B.Ed.	University of Kashmir	2015	1 <sup>st</sup>

## **Ph.D. DISSERTATION TOPIC**

On Laplacian spectra of Graphs

## **TEACHING EXPERIENCE**

- ✓ Five years of Teaching Experience.
- ✓ Working as Assistant Professor at University of Kashmir.

## **PUBLICATIONS**

1. Upper bounds for the sum of Laplacian eigenvalues of a graph and Brouwer's conjecture, *Discrete Mathematics, Algorithms and Applications* Vol. 11, No. 2 (2019), ISSN : 1793-8317.
2. On the generalized distance energy of graphs, *Linear Algebra and Applications* 603, (2020)1-19. ISSN: 0024-3795.
3. On graph with minimal distance signless Laplacian energy, *Acta universitatis sapientiae Mathematica* (2020). ISSN : 2066-7752.
4. On the generalized distance spectral radius of a bipartite graph, *Mathematics Vesnik*. 72(4) (2020) 327-336, ISSN : 2406-0682.

5. On the sum of the powers of A-alpha eigenvalues of graphs and A-alpha energy like invariant, *Boletim da Sociedade Paranaense de Matematica* (2020) ISSN : 2175-1188.
6. On Brouwer's conjecture and spectrally threshold dominated graphs, *Journal of the Ramanujan Mathematical Society*.(2021) ISSN : 23203110.
7. On signless Laplacian spectrum of zero divisor graphs of the ring  $Z_n$ , *The Korean journal of Mathematics* (2021) ISSN : 2288-1433.
8. Signless Laplacian eigenvalues of the zero divisor graph associated to finite commutative ring  $Z_pM_1 qM_2$ , *Communications in combinatorics and optimization* (2022) ISSN: 2538-2128.
9. On distance Laplacian energy in terms of graph invariants, *Czechoslovak Mathematical Journal* (2022) ISSN: 0011-4642.
10. On distance signless Laplacian spectral radius of power graphs of cyclic and dihedral groups , *Annales Mathematicae et informaticae* (2022) ISSN: 1787-5021.
11. On  $\alpha$ -adjacency energy of graphs and Zagreb index, *AKCE International journal of Graphs and Combinatorics* (2021) 18-21 , ISSN: 0972-8600

### **COMMUNICATED PAPERS**

1. On distance Reciprocal signless Laplacian . (submitted )
2. Bounds for the  $\alpha$ -adjacency graphs.(submitted )

### **Book/ Book Chapters**

1. On distance Laplacian (signless) eigenvalues of commuting graphs of dihedral and dicyclic. Published by springer In book: Algebra and Related Topics with Applications.
2. Topology For PG students published by Distance Education University of Kashmir.

### **Supervised (Bachelors of Science in Mathematics) at JKIMS Kashmir**

Mudasir Ahmad Parray	49-IMS-2018
Hafizullah Mir	50-IMS-2018
Bakir Mustaq	51-IMS-2018
Imrat Yaqoob	52-IMS-2018
Ruhee Farooq	72-IMS-2018
Suhail Bashir	53-IMS-2018
Nissar Ahmad	73-IMS-2018
Murtashib	54-IMS-2018

### **CONFERENCES ATTENDED**

1. November 19, 2017, Presented a Paper in Conference at Department of Mathematics organized by Kashmir Mathematical Society.

2. Research Methodology at University of Kashmir, Srinagar (September 13-19, 2017)
3. Recent trends in pure and applied mathematics” on December 19, 2017 at department of mathematics, University of Kashmir.
4. An Authors workshop on “Scholarly Writing & Intellectual Ethics” Organized by Elsevier & Central University of Kashmir, Srinagar, India, November-2017.
5. Presented a paper entitled “*ON THE LAPLACIAN ENERGY OF GRAPHS*” in international CIMPA school on combinatorial commutative algebra, Department of Mathematics , CIIT, Lahore, Pakistan ,March-2018.
6. Attended and presented a paper in 13<sup>th</sup> JK Science Congress from 2<sup>nd</sup> to 4<sup>th</sup> April, 2018.
7. Presented a paper entitled “*BOUNDS FOR THE LAPLACIAN ENERGY OF GRAPHS*” in Ist international conference on Recent Developments in Science, Humanities & Management, Cluster University, Srinagar, India, April-2018 Attended a 2-day national level workshop on “Geometrical Interpretation of Mathematical Concepts” at department of mathematics KU from 28th-29th August 2018.
8. Participated and presented a paper in the “International Conference on Mechanical Engineering” from 14th to 15th September 2018 organized by the School of Mechanical engineering, Sheri Mata Vaishno Devi Univeristy Katra, Jammu.
9. Presented a paper Attended at Banasthali Vidyapith University Rajasthan on November 03-2018.
10. presented a paper entitled “Laplacian energy and Brouwer’s conjecture for some graphs” 10 october, 2019 at department of Mathematical sciences U.A.E university , Al Ain Dubai.

### **WORKSHOPS**

1. Three day lecturer programme on "Mathematical modeling of biological systems" (April 02 to 04, 2015) organized by the department of mathematics university of Kashmir under national network for mathematics and computational biology (NNMCB)
2. "NAIVE SET THEORY AND ITS APPLICATIONS" (April 13-May 02, 2015) organized by University of Kashmir in collaboration with national centre for mathematics (A Joint centre of IIT Bombay and TIFR, Mumbai).
3. "Research promotion workshop on introduction to graph and geometric algorithms" (18-20 May, 2015) organized by the department of mathematics and department of computer science University of Kashmir under school of technology and computer science and Tata institute of fundamental research.
4. Dec. 2016 Workshop on Ramanujan Day 22 December at Jammu Kashmir Institute of Mathematical Sciences at Srinagar, Jammu and Kashmir.
5. September 2017, Attended a Workshop on Research Methodology at University of Kashmir, Srinagar.
6. Attended ATM school on “Algebraic Graph Theory” at Banasthali Vidyapith University Rajasthan from October 22 to November 03-2018 and gave a presentation
7. Attended “Ist workshop on graph theory, combinatorics and application (GTCA 2019)” October 9-10, 2019 at department of Mathematical sciences U.A.E university , Al Ain Dubai.

8. Attended “Combinatorics and Graph theory” Advanced Instructional school At University of Kashmir from 01 May to 13<sup>th</sup> May , 2023.

### **TECHINICAL SKILLS:**

Languages (C,C++,java), Database (MySQL), Tools (Latex, Mathematica, Mat lab)

### **MEMBERSHIPS**

Kashmir Mathematical Society (KMS) Kashmir.

### **PRESENT COMMUNICATION ADDRESS**

Rose Colony Khrahihama Lar Ganderbal - 191131

### **RECOMMENDATIONS**

1. Prof. S. Pirzada  
HOD Department of Mathematics  
University of Kashmir  
Email : [pirzadasd@kashmiruniversity.ca.in](mailto:pirzadasd@kashmiruniversity.ca.in)
2. Prof. Krishnan Sivasubramanian  
Professor at Department of Mathematics  
IIT Mumbai  
Email : [Krishnan@math.iitb.ac.in](mailto:Krishnan@math.iitb.ac.in)
3. Dr Nisar Ahmad Lone  
Assistant Professor Department of Mathematics, Jammu and Kashmir  
Institution of Mathematical Sciences Srinagar.  
Email : [nisarsultan@gmail.com](mailto:nisarsultan@gmail.com)