Academic Curriculum Vitae
(Dr. Kalpesh M. Popat)
(Assistant Professor)

Contact Information

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🗓 **Department of Mathematics, Saurashtra University, Rajkot-360005**

Academic Qualifications

- **Ph.D. in Mathematics** – Saurashtra University

- **M.Phil. in Mathematics** – First Class Distinction, Saurashtra University

- **M.Sc. in Mathematics** – First Class Distinction, Saurashtra University

- **B.Sc. in Mathematics** – First Class Distinction, Saurashtra University

- **GSET Qualified (Mathematics)**

Professional Experience

- **Assistant Professor**, Saurashtra University, Rajkot (March 2023 – Present)

- **Assistant Professor**, Atmiya University, Rajkot (May 2021 – March 2023)

- **Assistant Professor**, Atmiya Institute of Technology & Science, Rajkot (August 2011 – March 2020)

Research Publications (Scopus & SCI Indexed)

1. **Cahit Dede, Kalpesh M. Popat**, *Locally Equienergetic Graphs*, MATCH Communications in Mathematical and in Computer Chemistry, 95(3) (2025) 759-766. ***(SCI & Scopus Indexed)***

2. **Samir K. Vaidya, Kalpesh M. Popat**, *Some Borderenergetic and Equienergetic Graphs*, Kragujevac Journal of Mathematics, 48(6) (2024) 935-949. ***(Scopus Indexed)***

3. **Kalpesh M. Popat, Kunal R. Shingala**, *On Equienergetic Graphs and Graph Energy of Some Standard Graphs with Self Loops*, Proyecciones Journal of Mathematics, 43(5) (2023) 1269-1281. **(Scopus Indexed)**

4. **Kalpesh M. Popat, Kunal R. Shingala**, *Some New Results on Energy of Graphs with Self Loops*, Journal of Mathematical Chemistry, 61(6) (2023) 1462-1469. *(SCI & Scopus Indexed)*

5. **Kalpesh M. Popat**, *Some New Classes of Equienergetic Graphs*, South East Asian Journal of Mathematics and Mathematical Sciences, 43(5) (2022) 93-100. *(Scopus Indexed)*

6. **Samir K. Vaidya, Kalpesh M. Popat**, *Construction of L-Borderenergetic Graphs*, Kragujevac Journal of Mathematics, 45(6) (2021) 873-880. *(Scopus Indexed)*

7. **Samir K. Vaidya, Kalpesh M. Popat**, *Construction of L-equienergetic graphs using some graph operations*, AKCE International Journal of Graphs and Combinatorics, 17(3) (2020) 877-882. *(SCI & Scopus Indexed)*

8. **Samir K. Vaidya, Kalpesh M. Popat**, *On Equienergetic, Hyperenergetic, Hypoenergetic Graphs*, Kragujevac Journal of Mathematics, 44(4) (2020) 523-532. *(Scopus Indexed)*

9. **Samir K. Vaidya, Kalpesh M. Popat**, *Some New Results on Seidel Equienergetic Graphs*, Kyungpook Mathematical Journal, 59(2) (2019) 335-340. *(Scopus Indexed)*

10. **Samir K. Vaidya, Kalpesh M. Popat**, *Construction of Sequences of Borderenergetic Graphs*, Proyecciones Journal of Mathematics, 38(4) (2019) 837-847. *(Scopus Indexed)*

11. **Samir K. Vaidya, Kalpesh M. Popat**, *Energy of m-Splitting and m-Shadow Graphs*, Far East Journal of Mathematical Sciences, 102(8) (2017) 1571-1578. *(Scopus Indexed)*

12. **Samir K. Vaidya, Kalpesh M. Popat**, *Some New Results on Energy*, MATCH Communications in Mathematical and Computer Chemistry, 77(3), 589-594, 2017. *(SCI & Scopus Indexed)*

Conference Presentations

1. *Some New Classes of Equienergetic Graphs* – **National Conference on Emerging Trends in Discrete Mathematics (NCETDM-2022),** Hemchandracharya North Gujarat University, Patan (18-02-2022)

2. *Some Borderenergetic and Equienergetic Graphs of Arbitrarily Large Order* – **International Conference on Recent Trends in Mathematics and Its Applications to Graphs, Networks and Petri Nets (ICRTMA-GPN-2020),** Jawaharlal Nehru University, New Delhi (22-07-2020)

3. *L-spectra of Graphs Obtained by Duplications of Graph Elements* – **Recent Advancement in Graph Theory (RAGT-2019),** Gujarat University, Ahmedabad (09-11-2019)

4. *Construction of L-Borderenergetic Graphs* – **International Conference on Discrete Mathematics (ICDM-2019),** Christ (Deemed to be University), Bengaluru (08-06-2019)

5. *Construction of Sequences of Borderenergetic Graphs* – **Prof. P. C. Vaidya National Conference on Mathematical Sciences,** St. Xavier's College, Ahmedabad and Gujarat Ganit Mandal (24-12-2018)

6. *Construction of L-Equienergetic Graphs using Some Graph Operations* – **14th National ADMA Conference & Graph Theory Day-XIII (ADMA-2018),** DAIICT-Gandhinagar (09-06-2018)

7. *Some New Results on Seidel Equienergetic Graphs* – **National Conference on Applied Mathematics,** Gujarat University, Ahmedabad & Parul University, Vadodara (14-04-2018)

8. *On Equienergetic, Hyperenergetic, Hypoenergetic Graphs* – **13th National ADMA Conference & Graph Theory Day-XIII (ADMA-2017),** SSN College of Engineering, Chennai (09-06-2017)

9. *Energy of m-splitting & m-shadow graphs* – **National Conference on Algebra, Analysis & Graph Theory (NCAGG-2017),** Saurashtra University, Rajkot (09-02-2017)

10. *Some New Results on Energy of Graphs* – **International Conference on Discrete Mathematics (ICDM-2016),** Sidhdhganga Institute of Technology, Tumkur (Bangalore), Karnataka (09-08-2016)

11. *On Energy of Graphs* – **State Level Conference on Challenges for Sciences and Technology Education During Coming Decades (XXX Gujarat Science Congress Conference),** K.S.K.V Kachchh University & Gujarat Science Academy (06-02-2016)

Book Chapter:

1. *L-Spectra of Graphs Obtained by Duplicating Graphs Elements-* **Recent Advancements in Graph Theory,** CRC Press, 2021. ISBN: 9780367458867 (hardback), 9781003038436 (e-book)

Completed Research Project

1. Title: *Study of Graph Energy in the Context of Some Graph Operations*
   Type: Major Research Project
   Funding Agency: IQAC, Saurashtra University, Rajkot
   Duration: 04-August-2016 to 04-October-2018
   Total Grant: ₹1,00,000/-

Invited Talks & Guest Lectures

1. *Research Methodology & Use of Statistical Methods* – Ph.D. Course Work Lecture Series, Department of Mathematics, Saurashtra University, Rajkot (Multiple Dates)

2. *Introduction to LaTeX* – Ph.D. Course Work Lecture Series, Department of Mathematics, Saurashtra University, Rajkot (Multiple Dates)

3. *Presentation Using LaTeX* – Pedagogy Sessions, MCA Department, Atmiya University, Rajkot (10-09-2018)

4. *Quantitative Techniques-1* – Seminar for MBA Students, Atmiya Institute of Technology & Science, Rajkot (24-11-2019)

5. *Introduction to Hypothesis Testing and Statistical Methods* – Seminar for MCA Students, Atmiya University, Rajkot (31-05-2023)

Academic & Research Contributions

- Designed New Curricula & Courses for:

  - **M.Sc. (Mathematics)** – Discrete Mathematics, Mathematical Statistics

  - **MCA** – Discrete Mathematics, Theory of Computation, Statistical Methods, Computer-Oriented Numerical Methods

- Member of Board of Studies, Department of Mathematics, Saurashtra University.
- Member of Research Advisory Committee (RAC) at Darshan University, Rajkot.

Professional Membership:

- Life Member, Academy of Discrete Mathematics and Its Applications.