

Academic Curriculum Vitae

(Dr. Kalpesh M. Popat)

(Assistant Professor)

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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)**
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Professional Experience

- **Assistant Professor**, Saurashtra University, Rajkot (March 2023 – Present)
 - **Assistant Professor**, Atmiya Institute of Technology & Science, Rajkot & Atmiya University, Rajkot (August 2011 – March 2023)
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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)**

Research Supervision (Ph.D.)

- 1) Danish Bawani (Pursuing)
 - 2) Badgujar Vishal (Pursuing)
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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)**, Sidhhdhanga 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/-
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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-I* – 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)
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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.
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Professional Membership:

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