

Area of Research : Graph Theory & Matroid Theory



Curriculum Vitae

Name : Dr. Kiran Vishnupant Dalvi
Date of Birth : 21-04-1968
Qualifications : M.Sc. (Mathematics), Ph.D. (Graph Theory & Matroid Theory)
Designation: Associate Professor
Office Address: Department of Mathematics, College of Engineering, Shivajinagar, Pune-5, Maharashtra (India).

| Qualification | Board/ University | Marks Obtained In percentage | Class | Year of passing |
|--------------------------------|-------------------|------------------------------|-------------------|-----------------|
| S.S.C. | Pune | 68 | First | 1983 |
| H.S.C. | Pune | 56 | Higher second | 1985 |
| B.Sc.(Maths) | Pune | 66 | First | 1988 |
| M.Sc.(Maths) | Pune | 69 | First | 1990 |
| Ph.D. (Discrete Mathematics) | Pune | -- | Gold Medal | 2009 |

Total Teaching experience : 29 Years

Currently Deputed to Government College of Engineering, Ratnagiri since 28th June 2021.

Publications :

Papers Published : 09

1. M.M. Shikare and K.V. Dalvi, *On Splitting off operation for Graphs and its Applications*, International Journal of Mathematical Sciences and Engineering Applications, Vol. I No. 2 (2007) 317-331.
2. Kiran Dalvi, Y.M. Borse & M.M. Shikare, *Forbidden Minor Characterization for the Class of Graphic Element Splitting Matroids*, Discuss. Math. Graph Theory 29 (2009) 629-644.
3. Kiran Dalvi, Y.M. Borse & M.M. Shikare, *Forbidden-Minors for graphic and cographic es-splitting matroids*, Lobachevskii J. Math. , Vol. 31, No. 1 (2010), 27-35.
4. Kiran Dalvi, Y. M. Borse & M. M. Shikare, *Forbidden Minor*

Characterization for the Class of Co-graphic Element Splitting Matroids,
Discuss. Math. Graph Theory 31 (2011) 601-606.

5. M.M. Shikare, K.V. Dalvi & S.B. Dhotre, *Splitting Off Operation for Binary Matroids and its Applications*, Graphs and Combin. 27 (2011) 871-882.
6. M.M. Shikare, S.B. Dhotre, & Kiran Dalvi, A Characterization of the graphic split-off matroids, Australasian J. of Combinatorics, 50 (2011) 25 – 35.
7. Naiyer Pirouz, Kiran Dalvi and M.M. Shikare, *On the Excluded Minors for Regular Matroids which Yield Cographic Splitting Matroid*, Lobachevskii J. Math. , Vol. 32, No. 4 (2011) 376-384.
8. Y.M. Borse, Kiran Dalvi & M.M. Shikare, *Excluded Minors for the Class of Co-graphic Splitting Matroids*, Ars Combin., 115 (2014), 219-237.
9. Naiyer Pirouz, Kiran Dalvi & M.M. Shikare, *Cographic Element Splitting Matroids of regular Matroids*, Utilitas Mathematica, 101 (2016), 91-106.

Paper Accepted : 00

Papers Communicated : 02

1. Ganesh Mundhe, Y.M. Borse, and K.V. Dalvi, *On Graphic Elementary Lifts of Graphic Matroids* (Communicated to Discrete Math., October 2019).
2. Ganesh Mundhe and K.V. Dalvi, *On Graphic Splitting of Regular Matroids* (Communicated Lobachevskii J. Math, March 2020).

Preprint : 01

M.M. Shikare, Kiran Dalvi, Y.M. Borse & Santosh Dhotre, *Extension of splitting off operation from binary matroid to general matroid and its applications*.

No. of National Conferences organized : 04

No. of workshops organized : 02

No. of Guest Lectures organized at COEP : 10

No. of Conferences Attended : 14

No. of workshops Attended : 09

No. of STTP Attended : 07

No. of FDP Attended : 05

No. of CEP Attended : 01

Conferences / Seminars / Workshops Organized

1. 73rd Annual Conference of the Indian Mathematical Society organized by Department of Mathematics, University of Pune, College of Engineering, Pune and Fergusson College, Pune during 27th to 30th December 2007. (Member of Organizing Committee)
2. National workshop on Semigraph - 2010 and Sixth Annual Instructional Conference of ADMA (Academy of Discrete Mathematics and Applications, Mysore) and Graph Theory Day VI organized by Department of Mathematics, College of Engineering, Pune, 4th to 10th June 2010. Worked as the **convener** for national workshop on semigraph.
3. 'National Conference on Pure & Applied Mathematics (NCPAM – 2013)' at

- Department of Mathematics, College of Engineering, Pune during 17-19 December 2013. (**Convener** for the conference)
4. 'National Conference on Pure & Applied Mathematics (NCPAM – 2017)' at Department of Mathematics, College of Engineering, Pune during 17-19 May 2017. (**Convener** for the conference)
 5. Workshop on '3D Simplified Mathematics' for research scholars of COEP at Department of Mathematics, College of Engineering, Pune during 16-17 February 2019. (**Co-ordinator** for the workshop).
 6. One day workshop on 'Semigraphs' on 11th January 2020.

Invited Talk Given

In the 'National Conference on Discrete Mathematics' held during 20-22 February 2017 organized by Department of Mathematics, Savitribai Phule Pune University, Pune.

Title of the talk : Forbidden Minor Characterizations and Splitting of Binary Matroids

Date of the talk : 21st February 2017

Awards / Scholarships

1. Awarded a prize for **first rank** in order of merit at 'New Arts, Commerce & Science College', Ahmednagar at M.Sc. in 1990.
2. Awarded '**Gold Medal**' on 9th Feb. 2011 from University of Pune for the best Ph.D. thesis in Mathematics for the year 2009-10.

Books / Manuals Published

Written a Laboratory Manual of Engineering Mathematics-I in the year 2001 for MS-BTE, Maharashtra State Board of Technical Education, Mumbai for the first year Diploma students in Maharashtra.

Completed Project

PI: Dr. Y.M. Borse, Dept of Mathematics, University of Pune, Pune.

Co-PI: Dr. K.V. Dalvi

Project title: Extension of Graph-Operations to Matroids in Respect of connectivity.

Amount and Duration: Rs. 11,15,760, Three years (March 2013 to March 2016).

Sanction Board: DST-SERB (Science and Engineering Research Board), New Delhi.

Office order: No. SR/S4/MS: 750/12 Dated 20th May 2013.

Member of Board of Studies (BoS) of Department of Mathematics of the institutions

1. MIT Academy of Engineering, Alandi, Pune
2. G H Rasoni College of Engineering and Management, Wagholi, Pune
3. G H Rasoni Institute of Engineering and Technology, Wagholi, Pune
4. Sant Dnyaneshwar Shikshan Sanstha's Annasaheb Dange College of Engineering and Technology, Ashta (Dist: Sangli)
5. Pune Institute of Computer Technology (PICT), Dhankawadi, Pune
6. MIT Art Design and Technology University, Loni Kalbhor, Pune
7. Walchand College of Engineering, Sangli
8. Modern Education Society's Science College, Ganeshkhind, Shijajinagar, Pune

9. D.Y. Patil College of Engineering and Technology, Kolhapur

Membership of Professional Bodies

1. Life Member of 'Indian Society for Technical Education' LM 9552.
2. Life Member of 'International Journal of Mathematical Sciences and Engineering Applications' LM 1021, ISSN 0973-9424, Ascent Publication House, Pune (India).
3. Associated member of Research Group in Mathematical Inequalities and Applications, Victoria University, Australia.
4. Life Member of Indian Mathematical Society.
5. Life Member of ADMA (Academy of Discrete Mathematics & Applications), Mysore, India.
6. Member of 'The Institution of Engineering and Technology (IET)' Chennai. Member No. 1100315892

Other Relevant Experience

1. Worked as a Head of Department of Mathematics in College of Engineering, Pune from 1st Nov. 2003 to 19th March 2007 & from 1st July 2013 to 23rd June 2021 (Except for the period, 15th April 2019 to 26th June 2019)
2. Working as a Academic Council Member of College of Engineering , Pune

Dr. Kiran Vishnupant Dalvi

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Pune - 411005 (Maharashtra) INDIA

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