

Vijay Visavaliya

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Curriculum Vitae

Education

- 2008 **Master of Philosophy**, 76.00% *First Class with Distinction*, Sardar Patel University, Vallabh Vidyanagar.
Functional Analysis
- 2007 **Master of Science**, 72.63% *First Class with Distinction*, Sardar Patel University, Vallabh Vidyanagar.
Mathematics
- 2005 **Bachelor of Science**, 74.85% *First Class with Distinction*, Saurashtra University, Rajkot.
Mathematics
- 2002 **Higher Secondary School Certificate**, 50.92% *Second Class*, Kamani Forward Higher Secondary School, Amreli.
Studied Maths, Physics, Chemistry and Biology
- 2000 **Secondary School Certificate**, 84.29% *First Class with Distinction*, G.P.Madhyamik School, Juni Haliyad.

My objectives would be to find the cordial labeling of line graphs of some graphs and if there is a relation between cordiality of a graph with the respective line graph. I also wish to find the complexity of the cordial labeling of a line graph.

Doctor of Philosophy-Pursuing

Guide Professor Rahul Mutthu, DAIICT, Gnadhinagar

Description The work may go in the direction of an open problem which plays an important role in many areas of mathematics, computer science, learning theory, random graphs, coding theory, etc. is the Fourier Entropy-Influence Conjecture made by Friedgut and Kalai in 1996.

Master of Philosophy Thesis

Title *Real Function Algebras*

Guide Professor R.D. Mehta, Department of Mathematics, Sardar Patel University, Vallabh Vidyanagar

Description The theory of Banach algebras plays an important role in Functional analysis as most of the classical Banach spaces such as $C[a, b]$, l^1 , l^∞ etc. are Banach algebras. However, in the theory of Banach spaces the scalar field does not matter much, while in Banach algebras it does. Here we mainly study the elementary theory of real Banach algebras, the Gelfand theory of real commutative Banach algebras, a complexification of a real function algebras.

Experience

- January 2019–Present **Assistant Professor**, GOVERNMENT ENGINEERING COLLEGE, Valsad.
- May 2011–December 2018 **Assistant Professor**, VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE, Chandkheda.
- August 2008–April 2011 **Assistant Professor**, CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY, Changa.

Achievement

- June 2012 **NET(National Eligibility Test)**, *all India rank 111*, for Junior research fellowship, Conducted by CSIR-UGC.
- April 2011 **GPSC(Gujarat Public Service Commission)**, *rank 5*, Conducted by Gujarat Government, Gujarat.
- December 2008 **NET(National Eligibility Test)**, for lectureship, Conducted by CSIR-UGC.
- March 2008 **GATE(Graduate Aptitude Test in Engineering)**, *all India rank 239*, Conducted by Indian Institute of Technology, Bangalore.
- March 2007 **GATE(Graduate Aptitude Test in Engineering)**, *all India rank 266*, Conducted by Indian Institute of Technology, Kanpur.
- May 2005 **JAM(Joint Admission Test)**, *all India rank 406*, Conducted by Indian Institute of Technology, Bombay.
- September 2004 **Prof A R Rao Mathematics Competition**, *State rank 3*, Conducted by Gujarat Ganit Mandal.

Publications

- The Entropy Influence Conjecture Revisited, Electronic Colloquium on Computational Complexity, Report No. 146(2011) [ISSN 1433-8092].
- Some Results on Sum Cordial Graphs, Communications in Optimization Theory, 6(2014) [ISSN 2051-2953].
- Sum Cordial Labeling of Graphs, J. Math. Comput. Sci. 4(5) (2014), 879-891 [ISSN: 1927-5307].
- Further Results on Sum Cordial Graphs, Malaya J. Mat. 3(2)(2015), 175-181 [ISSN: 2319-3788].

Talks Delivered

- Problem Solving in Mathematics organized by Department of Mathematics, Sardar Patel University, Vallabh Vidyanagar during 20-26 December, 2011.
- Problem Solving in Mathematics organized by Department of Mathematics, Sardar Patel University, Vallabh Vidyanagar during 28 January-03 February, 2010.

Training Taken

- MATLAB based Teaching-Learning in Mathematics, Science & Engineering organized by the Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai in collaboration with DesignTech Systems Pvt. Ltd. during 18-22 May, 2020.
- Short Term Training Programme Induction Training Phase-II organized by National Institute of Technical Teachers' Training and Research, Bhopal during 27 August-8 November, 2018.
- Short Term Training Programme on Thinking about Thinking organized by Nirma University, Ahmedabad during 30 June-11 July, 2014.
- Short Term Course on Induction Training Programme Phase-I organized by National Institute of Technical Teachers' Training and Research, Bhopal during 26 May-6 June, 2014.
- Karmayogi Residential Training for Quality Improvement Program in Technical Education organized by Commissionerate of Technical Education, Gandhinagar during 21-23 November, 2013.
- Short Term Training Program on MATLAB organized by Dharamsinh Desai University, Nadiad during 29 June-4 July, 2009.
- Staff Development Programme on Applications of Mathematical Sciences and Soft Computing organized by Sardar Vallabhbhai National Institute of Technology, Surat during 8-12 December, 2008.

Seminars/Workshops/Conferences Attended

- An introductory workshop on GeoGebra organized by math4all as a part of the International GeoGebra Conference, India during 01-07 March, 2021.
- 13th Annual ADMA Conference & Graph Theory Day-*XIII* sponsored by Department of Science & Technology (DST) and organized by Academy of Discrete Mathematics and Applications (ADMA) & SSN College of Engineering, Chennai from 08-10 June, 2017.
- 13th ADMA Pre-conference School on Graph Algorithms organized by Academy of Discrete Mathematics and Applications (ADMA) & SSN College of Engineering, Chennai from 5-7 June, 2017.
- ISTE workshop on Pedagogy for Effective use of ICT in Engineering Education conducted by Indian Institute of Technology-Bombay from 12 June-2 August, 2014.
- Faculty Development Programme at OAKBROOK Business School, Ahmedabad on 1 February, 2014.
- Project Demonstration on Differential Equations organized by L.D. College of Engineering, Ahmedabad on 16th July, 2011.
- Scope of Research in Applied Mathematics organized by Institute of Technology, Nirma University, Ahmedabad on April 17, 2010.
- 3rd GSA-VVN CSC ANNUAL SCIENCE MEET at Department of Physics, Sardar Patel University on 17 February, 2008.
- The Workshop on Problem Solving in Mathematical Analysis and Related Areas' organized at the Department of Mathematics, Sardar Patel University during 21-26 February 26, 2008.

- 'Problems and Prospects of the Present Examination System' organized by the Examination Reforms Unit of the Sardar Patel University on 08 February, 2007.
- 44th meet of Gujarat Ganit Mandal organized by Ganit Parivar, Vadodara during 04-06 November, 2007.
- The Workshop on Problem Solving in Mathematics' organized at the Department of Mathematics, Sardar Patel University during December 27, to January 1, 2007.
- Visiting Student Study Programme 2006 held at Harish-Chandra Research Institute, Allahabad from 5-23 June, 2006.
- 41th meet of Gujarat Ganit Mandal organized by Lok Vigyan Kendra, Junagadh during 18-20 November, 2004.

— Languages

Gujarati **Mothertongue**

Hindi **Intermediate**

English **Intermediate**

Conversationally fluent

Communicate

— Interests

- Outdoor Photographing

- Spiritual Reading

- Dream Analysis