

NAME: Dr. Bijo S. Anand

DESIGNATION: Assistant Professor

MOB: 9447304466

EMAIL: bijos\_anand@yahoo.com

EDUCATIONAL QUALIFICATION: M.Sc. B.Ed.,UGC-JRF, SET, Ph.D.

AREA OF INTEREST: Graph Theory

SPECIALISATION: Graph Products, Graph Convexity, Graph Domination, Metric Graph Theory.

TEACHING EXPERIENCE: 12 Years as on 26-02-2022

Research Experience: 14 Years on 01-07-2022

Designation	Institution	Period
Assistant Professor	Sree Narayana College, Nattika, Thrissur	2010 to 2013
Assistant Professor	Sree Narayana College for Women, Kollam	2013-2015
Assistant Professor	Sree Narayana College, Punalur	2015-Till date

**Member, Board of Studies (UG PASS), University of Kerala**

## PUBLICATIONS

### Peer-Reviewed Journal Articles

1. **Bijo S. Anand**, Dourado, M. C., Prasanth G. Narasimha-Shenoi. & Ramla, S. S. (2021). On the  $\Delta$ -interval and the  $\Delta$ -convexity numbers of graphs and graph products. Discrete Applied Mathematics, 319 (2022) 487–498.
2. **Bijo S. Anand**, Manoj Changat, Prasanth G. Narasimha-Shenoi & Joseph, M. S. T. (2021). Boundary-type sets of strong product of directed graphs. ARS MATHEMATICA CONTEMPORANEA, 20(2), 275–288.2021
3. **Bijo S. Anand**, S. V. Ullas Chandran, Manoj Changat, Mitre Costa Dourado, Ferdoos Hossein Nezhad, Prasanth G. Narasimha-Shenoi: On the Carathéodory and exchange numbers of geodetic convexity in graphs. Theor. Comput. Sci. 804: 46-57 (2020).
4. **Bijo S. Anand**, Arun Anil, Manoj Changat, Mitre Costa Dourado, Sabeer Sain Ramla: Computing the hull number in  $\Delta$ -convexity. Theor. Comput. Sci. 844: 217-226 (2020)
5. **Bijo S. Anand**, Prasanth G. Narasimha-Shenoi, Sabeer Sain Ramla:  $\Delta$ -Convexity Number and  $\Delta$ -Number of Graphs and Graph Products. CALDAM 2020: 209-218

6. **Bijo S. Anand**, S. V. Ullas Chandran, Manoj Changat, Sandi Klavzar, Elias John Thomas: Characterization of general position sets and its applications to cographs and bipartite graphs. *Appl. Math. Comput.* 359: 84-89 (2019)
7. **Bijo S. Anand**, Manoj Changat, S. V. Ullas Chandran: The Edge Geodetic Number of Product Graphs. *CALDAM 2018*: 143-154
8. **Bijo S. Anand**, Manoj Changat, Prasanth G. Narasimha-Shenoi: Helly and exchange numbers of geodesic and Steiner convexities in lexicographic product of graphs. *Discret. Math. Algorithms Appl.* 7(4): 1550049:1-1550049:12 (2015)
9. **Bijo S. Anand**, Manoj Changat, Iztok Peterin, Prasanth G. Narasimha-Shenoi: Some Steiner concepts on lexicographic products of graphs. *Discret. Math. Algorithms Appl.* 6(4) (2014)
10. **Bijo S. Anand**, Kannan Balakrishnan, Manoj Changat and Iztok Peterin, Atoms And Clique Separators in Graph Products, *Applicable Analysis and Discrete Mathematics* Vol. 6(1), 46-62(2012)
11. **Bijo S. Anand**, Manoj Changat, Sandi Klavzar, Iztok Peterin: Convex Sets in Lexicographic Products of Graphs. *Graphs Comb.* 28(1): 77-84 (2012)

### Reviewer

1. AMS(American Mathematical Society)
2. **zbMATH**- Zentralblatt Math
3. *Discussiones Mathematicae Graph Theory*

### AWARDS AND HONOURS

2017- Indian Mathematical Conference Prize, for securing highest percentage of marks in M.Sc. Mathematics-2006.

### GRANTS AND FELLOWSHIPS

2018-2010: UGC-JRF

### INVITED TALKS

1. National Seminar on Number Theory, Discrete Mathematics, and their Applications, Organised by Department of Mathematics, Sree Narayana College, Nattika, Thrissur, Kerala, India, Sponsored by UGC, 18<sup>th</sup> and 19<sup>th</sup> February 2016

### Papers Presented

1. **Bijo S. Anand**, Prasanth G. Narasimha Shenoi, Inverted Distance and Graph Products, National Conference on Discrete Structures and its Applications (ASA-2016) , Department of Mathematics, LBS Institute of Tecnology for Women , Thiruvananthapuram, Kerala. 29<sup>th</sup> and 30<sup>th</sup> September 2016.

2. **Bijo S. Anand**, Manoj Changat, Iztok Peterin Prasanth G. Narasimha-Shenoi, Some Steiner concepts on lexicographic products of graphs, Indo-Slovenia Conference on Graph Theory and Applications(Indo-Slov 2013), Organized by Department of Futures Studies, University of Kerala in association with Graph Theory Research Group, University of Maribor and Institute of Mathematics, Physics and Mechanics, Ljubljana, Slovenia, 22<sup>nd</sup> to 24<sup>th</sup> February 2013.
3. **Bijo S. Anand**, Kannan Balakrishnan, Manoj Changat, Iztok Peterin, Atoms and Clique Separators in Graph Products, International Workshop on Graph Products: Structure and Algorithms, Organized by Department of Futures Studies University of Kerala, in association with Department of Science and Technology, Government of India, Institute of Mathematics, Physics and Mechanics, Ljubljana and Ministry of Science, Technology and Education, Government of Slovenia, 7<sup>th</sup> and 8<sup>th</sup> February 2012

### **Poster Presentations**

1. **Bijo S. Anand**, Manoj Changat, Atoms and Clique Separator in Graph Products, ICRTGC-International Conference on Recent Trends in Graph Theory and Combinatorics,(A Satellite Conference of the International Congress of Mathematics-ICM 2010 ), Department of Mathematics Cochin University of Science and Technology, Cochin 12-15 August 2010