

## **FACULTY PROFILE**

Name	:Diviya K D
Designation	:Assistant Professor
Department	:Mathematics
Email	:diviyarenju@gmail.com
Educational qualification	: M. Sc., B. Ed., NET
Experience	:13 years
Area of interest	:Linear Algebra, Graph Theory, Topology
Subjects Handled	:Linear Algebra, Topology, Discrete Mathematics, Real Analysis, Complex Analysis, Graph Theory
Field of research	:Graph Theory

### **Paper Presentations**

1. Presented a paper entitled “ Closeness Centrality of Some Graphs” in the International Seminar on “Advanced Mathematics and Statistics” held at Little Flower College Guruvayoor on 09, August 2019
2. Presented a paper entitled “Degree of an edge and Platt number in signed networks” in International Conference on Mathematical Modelling, Analysis and Computing (MMAC–2022) held during 14 to 16 September 2022 conducted by Department of Mathematics, Thiruvalluvar University, Vellore, Tamil Nadu, India
3. Presented a paper entitled “Signed Platt number in signed networks” in the International Conference on Mathematical Modelling, Simulation and Nonlinear Dynamics-2024 organized by the Department of Mathematics, Bharatiar University, Coimbatore on 15 th & 16 th February 2024
4. Presented a paper entitled “Trust dynamics analysis in social networks using signed degree of vertices” in “International Conference on Mathematics and its Applications(ICMA 2024) “ organized by the P G & Research Department of Mathematics, Sacred Heart College(Autonomous), Thirupattur on 15-16 February 2024
5. Presented a paper entitled “Signed-degree induced signed graphs and its properties” in “International Conference on Recent Advances in Mathematics and Data Science ” organized by Department of Mathematics, Bioinformatics and Computer Applications, Maulana Azad National Institute of Technology, Bhopal from 27<sup>th</sup> to 28<sup>th</sup> June 2024.

### **Paper publications**

1. Diviya, K. D., and Anjaly Kishore. "Degree of an edge and Platt Number in signed networks." *Ratio Mathematica* 46 (2023).

### **Orientation Programme attended**

1. Ministry of Youth Affairs & Sports, Govt. of India sponsored orientation Course for the Programme Officers of the National Service Scheme, organized by the empanelled training institute for NSS at Rajagiri College of Social Sciences from 20-10-2016 to 26-10-2016
2. UGC sponsored orientation Programme conducted by the UGC- Human Resource Development Centre from 07-06-2017 to 04-07-2017

### **Refresher Course attended**

1. Refresher course(interdisciplinary) on “ Sharpening of Soft Skills for Academic Excellence” conducted by the Academic Staff College, Kerala Veterinary and Animal Sciences University from 0-07-2019 to 16-07-2019
2. MHRD-PMMMNMTT sponsored two weeks Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS" organized by The Teaching Learning Centre, Ramanujan College, University of Delhi from April 20 - May 06, 2020
3. Online two-week refresher course in “Mathematical Sciences” organized by Teaching Learning Centre, Ramanujan College, University of Delhi from 14-06-2021 to 28-06-2021
4. UGC sponsored two-week online refresher course in “Interdisciplinary Refresher Course in Basic Science” from 26-11-2024 to 09-12-2024 organized by the Malaviya Mission Teacher Training Centre Kannur University.

### **Seminars/conferences attended**

5. National Seminar on “Measure with its applications in analysis and probability” held at K. K. T. M. Govt. College Pullut on 18,19 November 2013
6. National Conference on Applied Mathematics held at St. Thomas College, Thrissur on 27,28 February 2015
7. UGC sponsored national seminar on “ Number Theory, Discrete Mathematics and Their Applications” held at Sree Narayana College Nattika on 18.19 February 2016
8. National Seminar on “ Recent Developments in Fuzzy Set Theory” held at Christ College Irinjalakuda on 16.17 February 2017
9. National Seminar on “ Graph Theory and Its Applications” held at K. K. T. M. Govt. College Pullut on 15,16 November 2017
10. KSCSTE & DST sponsored seminar on “ Cryptography and Fuzzy Sets” held at Sree Narayana College Nattika on 09, August 2018
11. International Conference on “Recent Trends in Topology and its Applications” held at St: Joseph’s College, Irinjalakuda on 13,14 December 2018

12. International Seminar on “Advanced Mathematics and Statistics” held at Little Flower College Guruvayoor on 09, August 2019
13. International Webinar on “Recent Research Topics in Graph Theory” organized by the P G and Research Department of Mathematics MES Mampad College on 20,21 May 2020
14. Webinar on” Domination in Graph Theory and Applications” organized by the Department of Mathematics, Devaswom Board College, Thalayolaparambu, Kottayam on 23, May 2020
15. National Webinar on “USING SPSS TO UNDERSTAND RESEARCH & DATA ANALYSIS” organized by Research Advisory Committee, Aditi Mahavidyalaya, University of Delhi in collaboration with ICFAI Business School (IBS) Gurgaon on 24, May 2020
16. International Webinar on” Applications Graph Theory in Science and Technology” organized by the Department of Mathematics, Sree Narayana College for Women Kollam on 24, July 2020
17. State Level Webinar titled SAAC:CONTEXT AND CONTENT organized by Sree Narayana College, Nattika, in association with M P Moothedath Memorial Sree Narayana Trusts College, Shoranur, Sree Narayana Guru College of Advanced Studies, Nattika, and Sree Narayana Guru College of Advanced Studies, Alathur, on 25 July 2020.
18. Webinar on : Introduction to Frames and Locales” organized by the P G Department of Mathematics, Sree Narayana College Nattika on 13, August 2020
19. One week faculty development programme on “Python 3.4.3” organized by the Department of Physics & IQAC , Barnagar College, Sorbhog, Barpeta, Assam in association with Spoken Tutorial, IIT Bombay(An initiative of National Mission on Education through ICT, MHRD, Govt. of India) under Pandit Madan Mohan Malaviya National Mission of Teachers and Teaching Scheme from 27-08-2020 to 02-09-2020
20. ” Faculty Development Programme on Best Practises in Research” conducted by the Research and Publication Committee of IQAC of Sree Narayana College, Nattika, on 02-11-2020, 04-11-2020 & 07-11-2020.
21. National Webinar on “An Overview on Interval Graphs” organized by the Post Graduate Department of Mathematics and Statistics, Aquinas College Edakochi on 27-06-2022.
22. International conference on Recent Advances in Graph Theory and Allied Areas during 02 to 04 February 2023 organized by St. Aloysius College Elthuruth.
23. International conference on Discrete Mathematics and Graph Theory Day during 8 to 10 June 2023 organized by the Department of Mathematics, Vidyavardhaka College of Engineering, Mysuru in association with ADMA.
24. Prof. Ambat Vijayakumar Endowment Lecture and Workshop on Research Trends in Graph Theory on 05-08-2023 organized by the Department of Mathematics, CUSAT.

### **Workshops attended**

1. National workshop on Topology held at Sree Narayana College Alathur on 3,4, December 2015

2. State level workshop on "Acquiring API Scores & Submitting PBAS based Proposal under CAS- A practical approach with basic service literacy" held at Christ College Irinjalakuda on 01, April 2017
3. Online training course on "Make & Edit Video Class" organized by Christ College Irinjalakuda from 01-05-2020 to 05-05-2020
4. Online workshop on Recent Trends in Domination and Graph Labelling (RTDGL 2021) organized by Department of Mathematics, Ramanujan College, University of Delhi in collaboration with Academy of Discrete Mathematics and Applications (ADMA) during 27-05-2021 to 31-05-2021.
5. 10 days State Level Online Workshop on "Tools and Tricks of Research" organized by the Post Graduate and Research Department of Mathematics, St.Mary's College, Thrissur from 04-03-2022 onwards.
6. Workshop on Geogebra organized by Christ College (Autonomous) Irinjalakuda on 10-02-2023
7. National workshop on Computational Linear Algebra and Graph Theory organized by centre for Advanced Research in Applied Mathematics and Statistics, Manipal Academy of Higher Education, Manipal
8. Three day National online workshop on "Integrating AI into Research flows: From Concept to Scholary Publication" organized by MPMM S N Trusts College Shoranur from 16-12-2024 to 18-12-2024.
9. One week workshop on "Mastering Graph Theory with Advanced Tools Python, Sagemath, matlab and Latex Draw" organized by Indian Mathematics Professor Association and Infinity Research and Development Institute, Coimbatore on 07-04-2025 to 11-04-2025.
10. Pre conference workshop on "Network Analysis" organized by the Research Department of Mathematics , St. Paul's College, Kalamassery in association with ADMA on 05-06-25 and 06-06-25.

#### **Extension Activities**

1. Participated in the e-Valapad project of Sree Narayana College Nattika ,Manappuram Finance Ltd. and Valappd to make Valappad Grama Panchayath e-literate village
2. Handled a session in connection with National Mathematics Day 2018 at VHSS Karalam supported by Kerala State Council for Science and Technology & Environment
3. Judge of "S N Expo 2015-16" held at S N Vidhya Bhavan Senior Secondary School Chenthrappinni on 26-01-2016

#### **Academic responsibilities undertaken**

1. Tutorship
2. Internal Examinations Committee -Member
3. Attendance Committee -Member
4. SSP- Department coordinator
5. Remedial coaching -Department coordinator
6. Tutorial System- Member

**Duties performed at college**

1. N S S Programme Officer (2016-2019)
2. C S S Coordinator(2015-16)
3. National Integration & Peace Club –Member
4. Equal Opportunity Club – Member
5. Women Cell- Member
6. Internal Complaints Committee- Coordinator (2020-2021)
7. Anti Narcotic Cell-Co ordinator(2022-2025)
8. PTA Executive Committee-Member
9. Career Guidance and Placement Cell-Member
10. P G Forum- Member