FACULTY PROFILE

Name of the Teacher:	**: Dr. Diviya K D**
Designation	: Assistant Professor of Mathematics
Email	: diviyarenju@gmail.com
Educational Qualifications	: M.Sc., B.Ed., NET, PhD.
Date of Commencement of Continuous Service	: 25-10-2012
Teaching Experience	: 14 years

Service Details:

Period of Service	**Institution**
25-10-2012 to 18-06-2014	Sree Narayana College Alathur
19-06-2014 onwards	Sree Narayana College Nattika

Academic and Research Profile:

Area of Interest	: Graph Theory, Real Analysis, Linear Algebra
Field of Research	: Graph Theory
Subjects Taught	: Real Analysis, Topology, Complex Analysis, Graph Theory, Linear Algebra

- **Paper presentations**

1. Paper entitled "Closeness Centrality of Some Graphs" in the International Seminar on "Advanced Mathematics and Statistics" held at Little Flower College, Guruvayoor on 09-08-2019.
2. Paper entitled "Degree of an edge and Platt number in signed networks" in the International Conference on Mathematical Modelling, Analysis and Computing

organised by the Department of Mathematics, Thiruvalluvar University, Vellore, Tamil Nadu on 14.09.2022.

3. Paper entitled "Signed Platt Number in Signed Networks" in the International Conference on Mathematical Modelling, Simulation and Nonlinear Dynamics-2024 (ICMMSND 2024) organised by the Department of Mathematics, Bharathiar University, Coimbatore on 15.02.2024.
4. Paper entitled "Trust dynamics analysis in social networks using the signed degree of vertices" in the International Conference on Mathematics and its Applications (ICMA 2024) organised by the Research and P G Department of Mathematics, Sacred Heart College (Autonomous), Thirupattur on 16.02.2024.
5. Paper entitled "Signed degree induced signed graph and its properties" in the International Conference on Recent Advances in Mathematics and Data Science (ICRAMD 2024) organised by the Department of Mathematics, Bioinformatics and Computer Applications, Maulana Azad National Institute of Technology (MANIT), Bhopal, on 27.06.2024.

- **Publications:**

1. **"**Degree of an edge and Platt Number in signed networks", Ratio Mathematica 46 (2023): 91-100.
2. "Signed Platt Number in Signed Networks", International Journal of Applied Mathematics 38.1s (2025): 945-960.
3. "Signed-strong Domination in Signed Graphs", IAENG International Journal of Applied Mathematics 55 (2025): 3821-3828.

Academic Participation and Professional Development:

- **Orientation, Refresher and Other Faculty Development Programmes Attended:**

1. Ministry of Youth Affairs & Sports, Govt. of India sponsored Orientation Course for the Programme Officers of the National Service Scheme, organised 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.

3. 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.
4. MHRD-PMMMNMTT sponsored two-week Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS" organised by the Teaching Learning Centre, Ramanujan College, University of Delhi from April 20 - May 06, 2020.
5. Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching sponsored a two-week Refresher Course in “Mathematical Sciences” organised by the Teaching Learning Centre, Ramanujan College, University of Delhi from 14-06-2021 to 28-06-2021.
6. UGC sponsored two-week Interdisciplinary Refresher Course in Basic Science organised by UGC- Malaviya Mission Teacher Training Centre (MMTTC), University of Calicut from 26-11-2024 to 09-12-2024.
7. UGC sponsored one week NEP 2020 Orientation & Sensitization Programme organised by UGC- Malaviya Mission Teacher Training Centre (MMTTC), University of Calicut from 21-04-2025 to 30-04-2025.

- **Seminars/conferences attended:**

6. 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
7. National Conference on Applied Mathematics held at St. Thomas College, Thrissur on 27,28 February 2015
8. UGC sponsored national seminar on “Number Theory, Discrete Mathematics and Their Applications” held at Sree Narayana College, Nattika on 18.19 February 2016
9. National Seminar on “Recent Developments in Fuzzy Set Theory” held at Christ College Irinjalakuda on 16.17 February 2017
10. National Seminar on “Graph Theory and Its Applications” held at K. K. T. M. Govt. College, Pullut, on 15,16 November 2017
11. KSCSTE & DST sponsored seminar on “Cryptography and Fuzzy Sets” held at Sree Narayana College Nattika on 09, August 2018
12. International Conference on “Recent Trends in Topology and its Applications” held at St. Joseph’s College, Irinjalakuda on 13,14 December 2018
13. International Seminar on “Advanced Mathematics and Statistics” held at Little Flower College, Guruvayoor on 09, August 2019

14. 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
15. Webinar on” Domination in Graph Theory and Applications” organised by the Department of Mathematics, Devaswom Board College, Thalayolaparambu, Kottayam on 23 May 2020
16. National Webinar on “USING SPSS TO UNDERSTAND RESEARCH & DATA ANALYSIS” organised by Research Advisory Committee, Aditi Mahavidyalaya, University of Delhi in collaboration with ICFAI Business School (IBS) Gurgaon on 24, May 2020
17. International Webinar on” Applications of Graph Theory in Science and Technology” organised by the Department of Mathematics, Sree Narayana College for Women, Kollam on 24 July 2020
18. State Level Webinar titled SAAC: CONTEXT AND CONTENT organised 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.
19. Webinar on : Introduction to Frames and Locales” organised by the P G Department of Mathematics, Sree Narayana College Nattika on 13 August 2020
20. One-week faculty development programme on “Python 3.4.3” organised 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 02-08-2020
21. International conference on Graph Innovations (ICGI 2023) organised by the Department of Mathematics, Bharata Mata College, Thrikkakara on 16 December 2023.
22. International conference on Recent Advances in Graph Theory and Allied Areas during 02 to 04 February 2023, organised by St. Aloysius College, Elthuruth.
23. International conference on Discrete Mathematics and Graph Theory Day during 8 to 10 June 2023, organised by the Department of Mathematics, Vidyavardhaka College of Engineering, Mysuru, in association with ADMA.

24. International conference on Recent Trends in Graph Theory (ICRTGT 2024) organised by the Research and P G Department of Mathematics, St. Mary's College, Thrissur on 15, 16 March 2024.

- **Workshops attended:**

1. National workshop on Topology held at Sree Narayana College Alathur on 3,4, December 2015
2. District-level workshop on Voice/Scribe/ Companion Bank for the Blind held at Sri. Achutha Menon Govt. College, Thrissur in association with National Service Scheme, University of Calicut on 09, August 2016
3. 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
4. Online training course on "Make & Edit Video Class" organised by Christ College Irinjalakuda from 01-05-2020 to 05-05-2020.
5. Online workshop on Recent Trends in Domination and Graph Labelling (RTDGL 2021) organised 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
6. 10-day State Level Online Workshop on "Tools and Tricks of Research" organised by the Post Graduate and Research Department of Mathematics, St. Mary's College, Thrissur from 04-03-2022 onwards
7. Workshop on GeoGebra organised by Christ College (Autonomous), Irinjalakuda on 10-02-2023.
8. Prof. Ambat Vijayakumar Endowment Lecture and Workshop on Research Trends in Graph Theory on 05-08-2023 organised by the Department of Mathematics, CUSAT.
9. One-week online workshop on "Mastering Graph Theory with Advanced Tools Python, SageMath, MATLAB and LaTeX Draw" organised by Indian Mathematics Professor Association and Infinity Research and Development Institute, Coimbatore from 07-04-2025 to 11-04-2025.
10. Pre-conference workshop on "Network Analysis" organised by the Research Department of Mathematics, St. Paul's College, Kalamassery in association with ADMA on 05-06-25 and 06-06-25.

Academic Involvement/Institutional Responsibilities:

1. Admission Nodal Officer
2. Anti-Narcotics Cell Coordinator
3. Internal Examinations Committee Member
4. Attendance Committee Member
5. SSP- Department Coordinator
6. Remedial Coaching- Department Coordinator
7. PTA Executive Committee Member
8. Tutorial System- Member & Tutor
9. NSS Programme Officer (2016-2019)
10. CSS Coordinator (2015-16)
11. National Integration & Peace Club –Member
12. Equal Opportunity Club – Member
13. Women Cell- Member
14. Internal Complaints Committee Coordinator (2020-2021)
15. PG Forum-Member
16. Staff Association- Executive Committee Member

Extension Activities:

1. Participated in the e-Valapad project of Sree Narayana College, Nattika, Manappuram Finance Ltd. and Valappad to make Valappad Grama Panchayath an 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