

# Curriculum Vitae



**Dr John Joy**

Designation: Assistant Professor

Institution address: Department of Mathematics,  
St. Stephen's College, Uzhavoor, Kottayam, Kerala - 686634

Address: Mulloor House,  
Peroor P.O., Kottayam, Kerala - 686637

Religion: Christian, RCSC

Date of Birth: 10-11-1992

Marital Status: Single

Nationality: Indian

Name of Father: K. L. Joy

Name of Mother: Jainamma John

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ResearchGate | LinkedIn | Google Scholar | ORCID | Scopus

## Academic Details

Course	Educational Institution	Board / University	Year	Percentage/CGPA
PhD Mathematics Title: <b>A Study on Restrained Geodetic Domination in Graphs</b> Supervisor: Dr. Sangeetha Shathish	CHRIST (Deemed to be University), Bengaluru	CHRIST (Deemed to be University), Bengaluru	2023	
M.Phil. Mathematics Title: <b>Connected Geodomination Number of Product Graphs</b> Supervisor: Dr. D. Antony Xavier	Loyola College, Chennai	Madras University	2017	76.7%
MSc Mathematics Project title: <b>A Study of Fibonacci Numbers and Lucas Numbers via Hypergeometric Function</b> Supervisor: Dr. Arjun K. Rathie	Central University of Kerala	Central University of Kerala	2015	72.1%
BSc Physics Mathematics & Electronics	CHRIST (Deemed to be University), Bengaluru	CHRIST (Deemed to be University), Bengaluru	2013	79%
12 <sup>th</sup> grade	St. Ephrems HSS Mannanam	HSE Board Kerala	2010	84%
10 <sup>th</sup> grade	Holy Cross HSS Thellakom	State Board Kerala	2008	90%

## Teaching Experience

Sl.No.	Designation	Institution	Time Period	Duration
1	Guest Lecturer	B.C.M. College, Kottayam	06-08-2018 to 29-03-2019	8 months
2	Guest Lecturer	B.C.M. College, Kottayam	05-06-2023 to 20-03-2024	10 months
3	Assistant Professor	St. Stephen's College, Uzhavoor	21-03-2024 onwards	

## Publications

- L. Alex, G. Indulal and J. J. Mulloor, On the Inverse Problem of Some Bond Additive Indices, *Communications in Combinatorics and Optimization*, 2024 (accepted).
- L. Alex, J. J. Mulloor and G. Indulal, Induced Dominating Sequence and ESD Graphs, *Proyecciones Journal of Mathematics*, 2024 (accepted).
- J. J. Mulloor and V. Sangeetha, Restrained geodetic domination in the power of a graph, *AIP Conference Proceedings*, 3037, 020017 (2024). <https://doi.org/10.1063/5.0196078>
- J. J. Mulloor and V. Sangeetha,  $p$ -Geodetic vertex critical graphs, *Journal of Rajasthan Academy of Physical Sciences*, ISSN: 0972-6306, International Conference on Mathematical and Statistical Computation (ICMSC-2022) Swami Keshvanand Institute of Technology (SKIT), Jaipur, Rajasthan, India, 2022, 57-70
- J. J. Mulloor and V. Sangeetha, Restrained geodetic domination of edge subdivision graph, *Discrete Mathematics, Algorithms and Applications*, 14(05) (2022) 2250002.
- J. J. Mulloor and V. Sangeetha, Restrained geodetic domination in graphs, *Discrete Mathematics, Algorithms and Applications*, 12(06) (2020) 2050084.

## Awards & Achievements

- Attended the NPTEL Star workshop at IIT Madras on 20-01-2024.
- Awarded **NPTEL Evangelists** (July-Dec 2023) by NPTEL and SWAYAM powered by Ministry of Human Resource Development, India.

3. Awarded **NPTEL Motivated Lerner** (July-Dec 2023) by NPTEL and SWAYAM powered by Ministry of Human Resource Development, India.
4. Awarded **NPTEL Believer** (Jan-April 2022 & July-Dec 2023) by NPTEL and SWAYAM powered by Ministry of Human Resource Development, India.
5. Awarded **NPTEL Enthusiast** (Jan-April 2022) by NPTEL and SWAYAM powered by Ministry of Human Resource Development, India.
6. Awarded **NPTEL Discipline Star** (Jan-April 2022 & July-Dec 2023) by NPTEL and SWAYAM powered by Ministry of Human Resource Development, India.
7. National Topper in the NPTEL exam on 'Basic Linear Algebra' conducted by IIT Bombay (Feb-Apr 2021).
8. Completed 3 NPTEL courses with the Elite+Gold category.
9. Completed 8 NPTEL courses with the Elite+Silver category.

### Paper Presentations

1. John Joy, "A Note on Some Inverse Problem of Bond Additive Indices" in a National Conference on Algebra, Graph Theory and Applications (AGTA-2024) organised by the Department of Mathematics, St. Dominic's College, Kanjirapally, Kerala, on 17-05-2024.
2. John Joy, "A Study on Indu-Bala Product of Graphs Concerning Some Graph Parameters" in an International Conference on Recent Innovations in Science & Technology (RIST-2024) organised by Holy Grace Academy of Engineering, Mala, Kerala, on 26-04-2024.
3. John Joy, "A Note on Inverse Topological Index Problem for Cyclic Graphs" in the International Conference on Graph Theory (ICGT-2024) organised by the Department of Mathematics, CHRIST College (Autonomous), Irinjalakuda, Kerala on 09-02-2024.
4. John Joy, "A Note on Indu-Bala Product Graphs" in the International Conference on Graph Theory and its Applications (ICGTA-2023) organised by the Department of Mathematics, Amrita Vishwa Vidyapeetham, Coimbatore, Tamilnadu on 20-12-2023.
5. John Joy, "Restrained Geodetic Domination Polynomial of a Graph" in the International Conference on Recent Developments and Techniques in Pure and Applied Mathematics (ICRDTPAM-2023) organised by the Department of Mathematics, Alagappa University, Karaikudi, Tamilnadu on 23-03-2023.
6. John Joy, "Geodetic Number of an Edge Subdivision Graph" in the Multi-Disciplinary Online International Conference (QUAESITIO 2022-23) organised by the Research Cell & IQAC, St. Stephen's College, Uzhavoor, Kottayam, Kerala on 17-12-2022.
7. John Joy, "Restrained Geodetic Domination and Graph Operations" in an International Conference on Progress in Mathematics Towards Industrial Applications (PMTIA-2022) organised by the Department of Mathematics, SRM Institute of Science & Technology, Ramapuram campus, Chennai, Tamilnadu, on 29-10-2022.
8. John Joy, "Restrained Geodetic Domination in the Power of a Graph" in an International Conference on Recent Innovations in Science & Technology (RIST-2022) organised by Ernad Knowledge City Technical Campus, Manjeri, Kerala, on 08-07-2022.
9. John Joy, "Restrained Geodetic Domination in a Line Graph" in an International Conference on Mathematical Analysis and Applications (ICOMAA-2022) organised by the Department of Mathematics, University of Kalyani, Kalyani, Nadia, West Bengal, on 28-06-2022.
10. John Joy, "Restrained Geodetic Domination in Derived Graphs" in an International Conference on Mathematics and its Applications (ICMA-2022) organised by the Department of Mathematics, Sacred Heart College (Autonomous), Tirupattur, Tamilnadu, on 06-05-2022.
11. John Joy, "p-Geodetic Vertex Critical Graphs" in an International Conference on Mathematical and Statistical Computation (ICMSC-2022) organised by the Department of Mathematics, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, Rajasthan, on 05-03-2022.

12. John Joy, "Restrained Geodetic Domination Number of a Graph" in an International Conference on Advances in Multi-Disciplinary Sciences and Engineering Research ( ICAMSER-2021) at Chitkara University, Himachal Pradesh, on 03-07-2021.
13. John Joy, "Restrained Geodetic Domination in Graphs" in an International Conference on Science, Engineering & Technology and Social Sciences (ICSETS- 2020) organised by the Department of Mathematics, KE College, Kottayam, Kerala, on 01-02-2020.

#### Involvement in Academic Activities

1. Internal Mark Generation Committee, (2023-24) BCM College, Kottayam.
2. Coordinator of the Seminar on the topic *Journey to Become a Data Scientist from Academia to Industry* which was conducted on 20-02-2024 at BCM College, Kottayam.

#### Refresher Course

1. Completed a two-week Refresher course in **Mathematics** organized by the Department of Mathematics, Ramanujan College, New Delhi, and obtained a grade of A+ (31 August- 14 September 2021).
2. Completed a two-week Refresher course in **Mathematical Sciences** organized by the Teaching Learning Centre, Ramanujan College, New Delhi, and obtained a grade of A+ (14-28, June 2021).
3. Completed a two-week Refresher course in **Mathematics** organized by the Department of Mathematics, Ramanujan College, New Delhi, and obtained a grade of A+ (16-30, March 2021).

#### Training Programmes

1. Completed a one-month **Faculty Induction Programme** organized by Teaching Learning Centre, Ramanujan College, University of Delhi, in collaboration with Dhote Bandhu Science College Gondia Maharashtra under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) scheme, and obtained a grade of A+ (21-08-2023 to 19-09-2023).
2. Participated in the induction program in **Ordinary Differential Equation** organized by the Department of Mathematics, Gujarat University, Ahmedabad (24-31, July 2021).
3. Participated in the 5-days **CSIR-UGC-NET** online crash program on Mathematical Sciences organized by PG & Research Department of Mathematics, St. Peter's College, Kolenchery (24-28, May 2021).
4. Six-days Short Term Training Program (STTP) on **Innovative Tools for Mathematics** organized by the Department of Science and Humanities, Hindusthan College of Engineering and Technology, Coimbatore(03-08, May 2021).
5. Participated in the 5-day online program on **CSIR NET Preparation Tools and Techniques** organized by the Department of Mathematics, Standard Fireworks Rajaratnam College for Women (Autonomous), Sivakasi (25-29, May 2020)
6. Attended five-Days online training program on **Make & Edit Video Classes** organized by IQAC, Christ College (Autonomous), Irinjalakuda (01-05, May 2020).
7. Participated in the Postgraduate Level Training Program on **Differential Equations** sponsored by DST, Government of India held at IIT Kanpur (May – June 2015).

**NPTEL & SWAYAM Courses**

Course	Educational Institution	Year	No: of credits	% obtained
Discrete Mathematics	IIT Madras	2024	3	67
A Basic Course in Number Theory	IIT Bombay	2023	3	51
Linear Algebra	IISc Bangalore	2023	3	66
Calculus for Economics, Commerce and Management	IIT Bombay	2023	2	81
Introduction to Abstract Group Theory	IIT Madras	2023	2	86
Advanced Linear Algebra	IIT Roorkee	2023	3	60
Ordinary and Partial Differential Equations and Applications	IIT Roorkee	2023	3	50
Introductory Course in Real Analysis	IIT Kharagpur	2022	3	80
Introduction to Abstract and Linear Algebra	IIT Kharagpur	2022	2	96
Matrix Analysis with Applications	IIT Roorkee	2022	2	79
Mathematical Methods in Physics 1	IISER Bhopal	2022	2	75
Advanced Graph Theory	IIT Kanpur	2022	2	87
Basic Calculus - 1	IIT Madras	2022	3	55
First Course on Partial Differential Equations - I	IISc Bangalore	2022	2	65
Complex Analysis	IIT Madras	2021	3	66
Introduction to Abstract Group Theory	IIT Madras	2021	2	95
Graph Theory	Madurai Kamaraj University	2021	4	86
Laplace Transform	IIT Madras	2021	1	75
Basic Linear Algebra	IIT Bombay	2021	2	93
Graph Theory	IISER Pune	2021	2	84
Modern Algebra	Madurai Kamaraj University	2021	4	92

**Certificate Courses (without credits)**

1. Introduction to Ordinary Differential Equations authorized by Korea Advanced Institute of Science and Technology (KAIST) offered through Coursera (31, December 2020).
2. Grammar and Punctuation authorized by University of California; Irvine offered through Coursera (22, September 2020).
3. Basic Statistics authorized by University of Amsterdam offered through Coursera (18, September 2020).
4. Differential Equations for Engineers authorized by The Hong Kong University of Science and Technology offered through Coursera (18, September 2020).
5. Introduction to Calculus authorized by the University of Sydney, offered through Coursera (25, August 2020).
6. Matrix Algebra for Engineers authorized by The Hong Kong University of Science and Technology, offered through Coursera (29, July 2020).
7. Mind Control: Managing your Mental Health During COVID-19 authorized by University of Toronto, offered through Coursera (19, July 2020).
8. Write Professional Emails in English authorized by The Georgia Institute of Technology, offered through Coursera (08, July 2020).
9. Fibonacci Numbers and the Golden Ratio authorized by The Hong Kong University of Science and Technology, offered through Coursera (06, July 2020).

10. Mathematics for Machine Learning: Linear Algebra authorized by Imperial College London, offered through Coursera (18, June 2020).
11. Online introductory course on Open Source Tools for Instructional Scaffolding conducted by the Department of Computer Science, Sree Sankara Vidyapeetom College, Perumbavoor (21, May 2020).
12. Three-days national level online course on Operations Research conducted by Department of Mathematics, V.H.N.S.N College (Autonomous), Virudhunagar, Tamilnadu (18-20, May 2020).
13. Programming for Everybody (Getting started with Python) authorized by University of Michigan, offered through Coursera (11, May 2020).

### Conferences

1. Two-days International Conference on Mathematics, Statistics and Data Science (ICMSDS-2022) organized by School of Mathematics and Statistics & School of Data Analytics, Mahatma Gandhi University, Kottayam, Kerala (26-27, February 2022).
2. Three-days virtual International Conference on Discrete Mathematics - 2020 (VICDM-2020) jointly organized by the Department of Mathematics, Mangalore University, Mangalagangothri and Academy of Discrete Mathematics and Applications (ADMA) (08-10, February 2021).
3. 35<sup>th</sup> Annual Conference of the Ramanujan Mathematical Society organized by the Department of Mathematics, Central University of Rajasthan, Ajmer (28-30, December 2020).
4. Three-days International Conference on Number Theory & Discrete Mathematics (ICNTDM-2020) organized by Ramanujan Mathematical Society and hosted by Rajagiri School of Engineering Technology, Kochi (11-14, December 2020).
5. Three-days International Conference on Emerging Trends in Mathematics and Statistics (ICETMS-2020) jointly organized by Kerala Mathematical Association, Department of Mathematics and IQAC, St. George's College, Aruvithura (21-23, October 2020).
6. Three-days online International Conference on Graph Labelling and Applications (ICGLA-2020) organized by the Department of Mathematics, Goa University, Goa (17-19, September 2020).
7. Two-days International Conference on Discrete and Applied Mathematics (ICDAM-2020) organized by the Centre for Studies in Discrete Mathematics (CSDM), Vidya Academy of Science and Technology, Thrissur (18-19, September 2020).
8. Two-days International Conference on Present Scenario of Mathematical Sciences (ICPSMS-2020) organized by Department of Mathematics, Karnatak University's Karnatak Arts College, Dharwad (12-13, September 2020).
9. Two-days online International Conference on Emerging Trends in Vedic Mathematics & Applications in Science, Technology and Social Sciences Research hosted at Special Centre for E-Learning, Jawaharlal Nehru University, New Delhi (16-17, August 2020).
10. Four-days online National Conference on Pure and Applied Mathematics organized by the Department of Mathematics, KLS Gogte Institute of Technology, Belgavi (11-14, August 2020).
11. International Conference on Graph Connections (ICGC 2020) organized by the Department of Mathematics and Statistics and IQAC, Bishop Chulaparambil Memorial College in association with Mahatma Gandhi University, Kottayam (06-08, August 2020).
12. Five-days International Conference on Recent Trends in Mathematics and its Applications to Graphs, Networks and Petri Nets (ICRTMA-GPN-2020) jointly organized by the School of Computational and Integrative Sciences Jawaharlal Nehru University and Vijnana Parishad of India, NewDelhi (20-24, July 2020).
13. International level E-Conference on New-Gen Education E-Learning Black Board – Broadband organized by the School of Science, Rathinam College of Arts and Science (Autonomous), Coimbatore (13-17, July 2020).
14. Second International Conference on Algebra and Discrete Mathematics – ICADM 2020 organized by the Department of Mathematics – DDE, Madurai Kamaraj University, Madurai (24-26, June 2020).

15. International Web Conference on Advances in Mathematics organized by the PG and Research Department of Mathematics, St. Mary's College (Autonomous), Thoothukudi (17-19, June 2020).
16. National Conference on Emerging Trends in Graph Theory (ETGT- 2020) organized by the Department of Mathematics, CHRIST (Deemed to be University), Bengaluru (27-28, February 2020).

#### Faculty Development Programme (FDP)

1. Twelve-week FDP on A Basic Course in Number Theory organized by IIT Bombay and NPTEL-AICTE (Jul-Oct 2023).
2. Twelve-week FDP on Linear Algebra organized by IISc Bangalore and NPTEL-AICTE (Jul-Oct 2023).
3. Eight-week FDP on Introduction to Abstract Group Theory organized by IIT Madras and NPTEL-AICTE (Jul-Sept 2023).
4. FDP on Cognizant of Mathematical Software and its Applications organized by the Department of Mathematics, RD National College of Arts & Science, Erode (21-22, October 2021).
5. FDP on Graph Theory & its Applications organized by Deshbandhu College, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre (MHRFDC), Hansraj College, New Delhi (15-21, September 2021).
6. Completed the FDP on Academic Writing jointly organized by the Teaching Learning Centre, Ramanujan College, New Delhi, and P.E.S. Modern Law College Pune with a grade A+ (17-23, August 2021).
7. Five-days national level FDP on Graph Theory organized by the Department of Science in collaboration with IQAC, Christ College of Science and Management, Malur (June 29 - July 03, 2021).
8. National Level FDP on Number Theory & its Applications organized by the Department of Humanities and Sciences, Gates Institute of Technology, Ananthapuramu (14-19, June 2021).
9. Completed the FDP on Recent Trends and Challenges in Research organized by the Teaching Learning Centre, Ramanujan College, New Delhi and obtained grade A+ (10-18, May 2021).
10. FDP on The Current Scenario in Applied Mathematics organized by the Department of Science and Humanities, Hindusthan College of Engineering and Technology, Coimbatore (23-24, April 2021).
11. FDP on Best Practices in Research organized by Research & Publication Committee SreeNarayana College, Nattika (02, 04 and 07, November 2020).
12. FDP on Discrete Mathematics, Graph Theory and its Applications organized by the Department of Applied Sciences and Humanities in association with IQAC, Universal Engineering College, Vallivattom (17-21, August 2020).
13. One-week online National level FDP on The Role of Discrete Mathematics, Combinatorics & Graph Theory in Science and Technology organized by the Department of Mathematics, JNN College of Engineering, Shivammogga (10-14, August 2020).
14. FDP on Recent Trends in Applicable Mathematics organized by the Department of Mathematics, Karunya Institute of Technology and Sciences, Coimbatore (27-31, July 2020).
15. International FDP on Recent Trends in Graphs and Networks organized by the Department of Mathematics & IQAC, The Madurai Diraviyam Thayumanavar Hindu College, Tirunelveli (30-31, July 2020).
16. FDP on Emerging Trends in Graph Theory organized by the Department of Science and Humanities, Dr. N. G. P. Institute of Technology, Coimbatore (27-31, July 2020).
17. One-week online FDP on E-Contents and ICT Tools for Innovative and Effective Teaching organized by KS Jain Institute of Engineering and Technology, Ghaziabad (15-21, July 2020).
18. Two-days online FDP on Algebra and Analysis organized by the Department of Mathematics, Vellalar College for Women (Autonomous), Erode (16-17, July 2020).
19. FDP on Computational Mathematics for Engineers and Researchers organized by the Department of Mathematics & Department of Computer Engineering, Poornima Institute of Engineering & Technology, Jaipur (10-12, July 2020).

20. One-week national online FDP on Learning Management System & E-Content Development Tools organized by Hindusthan College of Arts and Science, Coimbatore (01-08, July 2020).
21. Five-days online FDP on ICT Based Teaching and Learning Process organized by RCP, Roorke (01-05, July 2020).
22. One-week online FDP on Taxonomy of Softwares Related to Mathematical Sciences organized by Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad (09-14, June 2020).
23. FDP on Research Methodology organized by the Ramanujan club of Mathematics & IQAC, Jeppiar Institute of Technology, Sriperumpudur (01-02, June 2020).

### Workshops

1. Three-days National Research Workshop on Graph Theory organized by the Department of Mathematics, Bishop Chulaparambil Memorial (BCM) College, Kottayam (23-25, May 2024).
2. Three-days National Workshop on Coloring and Domination in Graphs with Applications organized by the Department of Mathematics, CHRIST (Deemed to be University), Bengaluru (02-04, March 2023).
3. Three-days International Workshop on Structural Mathematics using Graph Theory organized by the Department of Mathematics, SRM Institute of Science and Technology, Ramapuram, Chennai (13-15, December 2021).
4. Five-days Workshop GANITHA GARIMA organized by the Department of Mathematics in association with IQAC, University of Kerala, Thiruvananthapuram (29 November to 03 December 2021).
5. Eight-days National Level Workshop on Research in Higher Education Institutions organized by the Research & Development Cell, Sree Narayana Guru College, Coimbatore (11-19, August 2021).
6. Five-days National Level Workshop on Software in Mathematics and Statistics (WSMS – 2021) organized by the Department of Mathematics, NIT Tiruchirappalli (02-06, August 2021).
7. Five-days International Research Workshop on Graph Domination (IRWGD-21) organized by the Department of Mathematics, St. Paul's College, Kalamassery in association with the Ramanujan Mathematical Society (20-24, July 2021).
8. Five-days National Level Workshop on Algebra, Analysis and Differential Equations (WAAD 2021) organized by the Department of Mathematics, National Institute of Technology Tiruchirappalli (14-18, June 2021).
9. Five-days online workshop on Recent Trends in Domination and Graph Labelling (RTDGL 2021) organized by the Department of Mathematics, Ramanujan College, University of Delhi in collaboration with Academy of Discrete Mathematics and Applications (ADMA) (27-31, May 2021)
10. Three-days Workshop on Domination Theory & Topological Indices jointly organized by Department of Mathematics, Mangalore University, Mangalagangothri and Academy of Discrete Mathematics and Applications (ADMA) (04-06, February 2021).
11. Seven-days National level online Workshop on Revised NAAC Norms and Procedures under the Aegis of the UGC Scheme – PARAMARSH organized by the IQAC, St. Joseph's College (Autonomous), Bengaluru (07-15, January 2021).
12. Two-days online Workshop on Fundamentals of MATLAB organized by the Department of Mathematics, from Sri Shakthi Institute of Engineering and Technology, Coimbatore, Tamil Nadu (10-11, December 2020).
13. Six Days virtual Lecture Workshop on Linear Transformations, Matrices and their Applications organized by the Department of Mathematics, S.V.U. College of Sciences, S.V. University, Tirupati (02-07, November 2020).
14. One day National online Workshop on Creation of Educational Videos with Video Editor organized by the Tumkur University Teacher Educator's Association (TUTEA), Tumkur (18, October 2020).
15. Six days International online Workshop on Initiation into Linear Algebra organized by the PG & Research Department of Mathematics, Mar Thoma College, Tiruvalla (28 September to 03 October 2020).



16. One day National online Workshop on Online Assessment Tools organized by the Tumkur University Teacher Educator's Association (TUTEA), Tumkur (27, September 2020).
17. Virtual Workshop on Pure Mathematics organized by the Department of Pure Mathematics, University of Calcutta, Kolkata (21-25, September 2020).
18. One day National online Workshop on Creation of Digital and Educational Posters organized by the Tumkur University Teacher Educator's Association (TUTEA), Tumkur (20, September 2020).
19. National Level three days online Workshop on MATLAB organized by the Department of Science and Humanities, Hindusthan College of Engineering and Technology, Coimbatore (02-04, September 2020).
20. National Level three days online Workshop on Mathematica for Beginners (A Technical Computing System) organized by the Department of Applied Sciences, Chitkara University, Punjab (17-19, August 2020).
21. National Level online Workshop on Programming Essentials for Mathematics using Python organized by the Department of Mathematics, CHRIST (Deemed to be University), Bengaluru (09-14, August 2020).
22. National Level Workshop on Introduction to Maple 2020 organized by BINARY SEMANTICS (29, June 2020).
23. National Level Workshop on Python for Beginners organized by the Department of Mathematics, Government First Grade College, Kolar (June 2020).
24. National Workshop on Partial Differential Equations organized by the Department of Mathematics and Statistics, B.C.M College, Kottayam (February 2019).
25. Workshop on Research Methodology organized by the Research Centre Loyola College, Chennai (December 2016).
26. International Symposium on Algebra and its Applications organized by K. S. Rangasamy College of Arts and Science, Namakkal (September 2016).
27. National Workshop on Understanding Mathematics organized by the Department of Mathematics, Central University of Kerala, Kasaragod (March 2016).
28. National Workshop on Module Theory organized by the Department of Mathematics, Central University of Kerala, Kasaragod (December 2014).
29. National Workshop on Functional Analysis organized by the Department of Mathematics, Central University of Kerala, Kasaragod (March 2014).
30. National Workshop on Topological Dynamics organized by the Department of Mathematics, Central University of Kerala, Kasaragod (February 2014).

#### Lecture Series

1. International Lecture Series on Applications of Graph Theory in day-to-day life organized by the Postgraduate Department of Mathematics in association with the IQAC, St. Aloysius College, Edathua. (27, January 2021).
2. International Lecture Series on Visualizing Some Mathematical Concepts Using Softwares organized by the Postgraduate Department of Mathematics in association with the IQAC, St. Aloysius College, Edathua. (28, October 2020).
3. Online Lecture Series on Spectral Graph Theory organized by the PG & Research Department of Mathematics, Mar Thoma College Tiruvalla (05, October 2020).
4. National Level three days online Lecture Series on Graph Theory and its Applications organized by the PG & Research Department of Mathematics, Mar Thoma College Tiruvalla in collaboration with Kerala Mathematical Association (19-21, August 2020).

#### Technical Skills

- Familiar with Microsoft Office, MATLAB, Python and  $\text{\LaTeX}$

## References

Dr. Stephy Thomas  
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Dr. Sangeetha Shathish  
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Department of Mathematics,  
CHRIST (Deemed to be University), Bengaluru  
sangeetha.shathish@christuniversity.in

## Declaration

I hereby declare that the above information is true to the best of my knowledge.



Dr. John Joy  
Place: Kottayam  
Date: 24-05-2024