

## CURRICULUM VITAE

**Prof. (Dr.) BIBIN K JOSE**

PROFESSOR

PG & RESEARCH DEPARTMENT OF MATHEMATICS

SANATANA DHARMA COLLEGE

ALAPPUZHA, KERALA, INDIA

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### EDUCATIONAL DETAILS:

Qualification	University/Board	Institution	Year of Passing	% of Marks
Account Test (Lower)	PSC		Jan 2025	
Diploma in Theology	Chair for Christian Studies, University of Calicut	KERYGMA institute of theology, Eparchy of Kanjirappally, Pastoral Centre Kanjirappally	2014	
Ph.D. (Mathematics)	Mahatma Gandhi University, Kottayam		July 2012	
JRF+NET	CSIR/UGC		June.2009	Rank-113
NET	UGC/CSIR		Dec.2008	
M.Phil (Mathematics)	University of Madras, Chennai.	Loyola College Chennai.	2007	93.0
M.Sc (Mathematics)	Mahatma Gandhi University, Kottayam	St Dominic's College, Kanjirapally.	2006	86.3
B.Sc. (Mathematics)	Mahatma Gandhi University, Kottayam	St Dominic's College, Kanjirapally	2004	95.7
Pre-Degree (Science)	Mahatma Gandhi University, Kottayam	St Dominic's College, Kanjirapally	2001	76.0
SSLC	General Education Department Kerala	St Ephrem's H.S.S. Mannanam	1999	74.5

- Received **Ph.D.** degree from Mahatma Gandhi University, Kottayam on 22<sup>nd</sup> July, 2012 under the guidance of **Prof. S. Arumugam** and the title of the thesis is “**Domination in Hypergraphs**”
- Recognized as a **Research (Ph.D.) Guide**, of University of Kerala, Trivandrum on 21.06.2014.

## **PERSONAL PROFILE:**

Full Name : Bibin K Jose  
Permanent Address : Kizhakkayil (House)  
Kanam P.O  
Kottayam (Dis), Kerala, India  
Kerala-686515  
Date of Birth : 10<sup>th</sup> December 1983  
Sex : Male  
Marital Status : Married  
Blood Group : B +ve  
Father's Name : Jose Joseph  
Religion : Christian, R.C.S.C. (Syro Malabar Christian)  
Nationality : Indian  
Place of Birth : Kottayam, Kerala, India.  
Researcher ID : KXS-1925-2024  
Google Scholar ID : n5SIWKEAAAAJ  
Scopus Author ID : 36727761500  
SciProfiles : 3095278  
ORCID ID : 0000-0002-3404-3709

## **TEACHING EXPERIENCE:**

1. **Professor** in the PG & Research Department of Mathematics, **Sanatana Dharma College, Alappuzha** from 20-11-2024 onwards.
2. **Associate Professor** in the PG & Research Department of Mathematics, **Sanatana Dharma College, Alappuzha** from 20-11-2021 to 19-11-2024.
3. **Assistant Professor** in the PG & Research Department of Mathematics, **Sanatana Dharma College, Alappuzha from 20-11-2009** to 19-11-2021.
4. FIP-Substitute lecturer in the Department of Mathematics, **Mar Thoma College, Thiruvalla** in the FIP-leave vacancy from 10-06-2009 to 18-10-2009.
5. Guest lecturer in the Department of Mathematics, **St Dominic's college Kanjirappaly, Kerala** as a guest lecturer from 16-09-2008 to 29-02-2009.

## **PhD GUIDANCE: (Ongoing)**

Candidate Name	Title	University Order No.
Simili Abraham	A Study on Matrix related Problems in Graphs and Hypergraphs and its applications	No. AcE VI(2)/717/MAT/16226/2017 dated 23/01/2018
Gowri N	On Domination and Related Topics in Graphs	No. AcE VI(I)/718/MAT/17721/2018

		dated 19/11/2018
Salu S	Some Distance Related Concepts in Fuzzy Graphs	No. AcE VI(I)/719/MAT/20595/2019 dated 20/12/201
Thomas Mathew	Study of Properties of Attractors of Mobius/ Conformal Iterated Function System	No. AcE VI(I)/719/MAT/20579/2019 dated 05/02/2020

### RESEARCH ARTICLE PUBLICATIONS:

1. **Bibin K. Jose** and Zsolt Tuza, *Hypergraph domination and strong independence*, Appl. Anal. and Discrete Math, 3 (2009), 347-358. (available online at <http://pefmath.etf.bg.ac.yu>)
2. **Bibin K. Jose**, *Open Distance Pattern Uniform graphs*, International Journal of Mathematical Combinatorics vol-3, No-3, 2009,103-115.
3. **Bibin K. Jose**, *A Note on the Conjectures on Balanced Hypergraph and Disjoint Domination Number*, Proceedings of National Seminar on Discrete Mathematics And Applications, March 23<sup>rd</sup> and 25<sup>th</sup>, 2008, Mar Thoma College, Thiruvalla, p.56-62.
4. S. Arumugam, **Bibin K. Jose**, Csilla Bujts,4 and Zsolt Tuza, *Equality of Domination and Transversal Numbers in Hypergraphs*, Discrete Applied Mathematics, 161(2013) 1859-1867.
5. **Bibin K. Jose**, *Some New Classes of Open Distance Pattern Uniform graphs*, International Journal of Combinatorics, vol. 2013, Article ID 863439, 7 pages, 2013. doi:10.1155/2013/863439.
6. **Bibin K. Jose**, *Graph Products of Open Distance Pattern Uniform graphs*, Gen. Math. Notes, Vol. 18, No. 2, 2013, pp.67-76.
7. Ajitha V, **Bibin K Jose** and Manju Raju, *On Graph Completion of a Graph*, Int. J. Engg. Sci. And Maths., Vol.6. No.8 , (2017), 274-279.
8. **Bibin K. Jose**, *A Characterization of Open Distance Pattern Uniform Chordal Graphs and Distance Hereditary Graphs*, Journal of Emerging Technologies and Innovative Research, Vol. 4, No. 8, 2017, pp.618-624.
9. Shiny Joseph, V. Ajitha, and **Bibin K. Jose**, *Construction of some betweenness uniform graphs*, AIP Conference Proceedings 2261, 030015 (2020); <https://doi.org/10.1063/5.0016847>
10. S Salu and **Bibin K Jose**, *On  $\mu^n$ -fuzzy graphs*, Journal of Tianjin University Science and Technology, Vol.55. No.7, (2022), 9-15. (DOI:10.17605/OSF.IO/8QYVH)
11. S Salu and **Bibin K Jose**, *On completeness, self centeredness and hereditary properties of  $\mu^n$ -fuzzy graphs*, Advances and Applications in Mathematical Sciences., Vol.21. No.11 , (2022), 6167-6177.
12. B.S. Arun Sasi, Suthertha S. Nair, **Bibin K. Jose**, C. James and D. Sajan, *Hydrogen bonding interaction and topological insights of the electron localization/ delocalization of L- arginine acetate*, Journal of the Indian Chemical Society, Vol.99, No.9, (2022).
13. Hussain, K., Vanathi D., **Bibin K. Jose**, Kavith S, B Y Rane, Kaur H., Sandhya, C., *Internet of Things- Cloud Security Automation Technology Based on Artificial Intelligence*, Proceedings - International Conference on Applied Artificial Intelligence and Computing, 2022, pp. 42–47.

14. Sathanapriya, M., R. Prameela Devi, C. Sandhya, Anil Pokuru, T. Habeebur Rahman, **Bibin K Jose**, Samanta Gadde, *Analysis of Hydroponic System Crop Yield Prediction and Crop IoT-based monitoring system for precision agriculture*, International Conference on Edge Computing and Applications, ICECAA 2022 - Proceedings, 2022, pp. 575–578.
15. S. Venkatachalam, P Neeraja, S Kavitha, B Rajasekaran, G Santhosh and **Bibin K. Jose**, *Future IoT Applications using Artificial Intelligence-based Science: Agriculture*, Proceedings - International Conference on Inventive Research in Computing Applications, ICIRCA, 2022, pp. 1226-1229.
16. K. Hussain, P. Neeraja, **Bibin K. Jose**, C.V.S. Prasad, S.Selvaraju, and A.B.Kodali, “Analysis of Wearable Sensor Electronics and Wireless Health Monitoring Systems”, *Int J Intell Syst Appl Eng*, vol. 11, no. 2, pp. 148–152, Feb. 2023.
17. **Bibin K. Jose**, *A Characterization of Maximal Outerplanar-Open Distance Pattern Uniform Graphs*, *Baghdad Sci.J.*, vol. 20, no. 1(SI), p. 0245, Mar. 2023.
18. **Bibin K. Jose**, *Open Distance Pattern Uniform Self-Complementary graphs*, AIP Conference Proceedings, 2797, 020001 (2023)
19. **Bibin K. Jose**, *Open Distance Pattern Uniform Complement Reducible graphs*, AIP Conference Proceedings, 2829, 030001 (2023)
20. P. Revathi, Merin George, Bessy Mary Philip, Suthiertha S. Nair, **Bibin K. Jose**, Elsy Shereena, Reena Ittyachan, T. Balakrishnan, D. Sajan, *Synthesis, Growth, Thermal and Third-Order Nonlinear Optical Studies of Bisglycine Lithium Perchlorate Single Crystal*, *Crystal Research and Technology*, 2300097, (2023)
21. Elango, S, Revathi, V., Deepthi, S. A., Kodali, A. B., Gopila, M. and **Bibin K. Jose**, *Analysis of Social Network Data Mining for Security Intelligence Privacy Machine Learning*. International Journal on Recent and Innovation Trends in Computing and Communication, 11(8s), 155–161 (2023).
22. C. Natesamurthi, S.Karthikeyan, Y.Robinson , K.Gopalakrishnan, J.Manivannan, **Bibin K Jose**, *Numerical Studies Of Solar Water Heating System With Cpc Solar Collector And Thermal Energy Storage*, *Eur. Chem. Bull.* 12(10), 12824-12826 (2023)
23. Prabhu S, Arulperumjothi M, Ghani MU, Imran M, Salu S, **Bibin K. Jose**, *Computational Analysis of Some More Rectangular Tessellations of Kekulenes and Their Molecular Characterizations*, *Molecules*, 28(18):6625 (2023).
24. Lalit Mohan Trivedi, M Elumalai, N Srikanth Reddy, Archana Kumari Prasad, **Bibin K Jose**, Jyoti Prasad Patra, *Quantum Computing Algorithms For Solving Complex Mathematical Problem*, International Journal on Recent and Innovation Trends in Computing and Communication, 11(10), 2202–2206 (2023)
25. S. Prabhu, D. Meiyappan, M. Arulperumjothi, Simily Abraham and **Bibin K. Jose**, *Circumcoronene Nanostructures with Cavity and its Novel Molecular Descriptor*, *TuijinJishu/Journal of Propulsion Technology*, Vol.44. No. 6, 5565-5577 (2023)
26. S. Prabhu, M. Arulperumjothi, Murugan D, Salu S and **Bibin K. Jose**, *Bond Additive Molecular descriptors, topological indices, grapheme nanoribbon, cove edge*, *TuijinJishu/Journal of Propulsion Technology*, Vol.44. No. 6, 1001-4055 (2023)
27. P. Revathi, Merin George, Bessy Mary Philip, Suthiertha S. Nair, R. Anjana, **Bibin K. Jose**, D. Shiney Manoj, T. Balakrishnan, D. Sajan, *Growth, thermal and third order nonlinear optical properties of bisglycine strontium bromide trihydrate single crystal*, *J. Mater Sci: Mater Electron* 35:842(2024).
28. Renzón Daniel Cosme Pecho, K. Sri Vijaya, Neelam Sharma, Hemant Pal and **Bibin K. Jose**, *An approach for crop yield prediction using hybrid XGBoost, SVM and C4.5 classifier algorithms*, *Engineering and Applied Science Research*, 51(3), 300–312.

29. S. Sathiskumar S. Deepa Rani, Merin George, Javeesh Alex, Bessy Mary Philip, Sutheertha S. Nair, R. Anjana, **Bibin K. Jose**, D. Shiney Manoj, R. G. Abhilash Kumar and D. Sajan, *Vibrational spectra and third order nonlinear optical studies of L-proline manganese chloride monohydrate*. J Opt (2024). <https://doi.org/10.1007/s12596-024-02044-0>.
30. S. Karthikeyan, A. Karthikeyan, **Bibin K. Jose**, S. Marimuthu, T. Sathish, J. Ganesh Murali; *Influences of titanium carbide on behaviour of jute fiber made epoxy composite for automotive usage*. AIP Conf. Proc. 12 June 2025; 3267 (1): 020296. <https://doi.org/10.1063/5.0264689>
31. Ch Rajyalakshmi, K. Sanjeevaiah, **Bibin K Jose**, P. Venkateswarlu Reddy, Chintalapudi Anil, *Hyperspectral Image: A Fusion-Based Extraction and Classification Utilizing Centernet Technique*, International Journal of Image and Graphics, 2025.
32. Prabhu, S., Arulperumjothi, M., Salu, S. and **Bibin K Jose**, *Computational analysis of linear chain of holey nanographene and their molecular characterizations*, Journal of Molecular Modeling, 31(2), p.62(2025).
33. S. Prabhu, Simili Abraham, **Bibin K. Jose** and M. Arulperumjothi, Tony Augustine, *Ambient-Stable Electroactive Graphene Nanoribbons: A Comprehensive Analysis of Distance, Degree, Energetics and <sup>13</sup>C NMR signals*, Combinatorial Chemistry & High Throughput Screening (Accepted for publication).
34. S Salu, S Prabhu, M Arulperumjothi and **Bibin K Jose**, *Molecular Topological Characterization of Tessellations of Rectangular Kekulene Structures*, Palestine Journal of Mathematics (Accepted for publication).
35. S. Prabhu, Simili Abraham, **Bibin K. Jose** and M. Arulperumjothi, *On Various Distance-Based Topological Indices of Hexabenzocoronene with Bitrapezium structure*, Palestine Journal of Mathematics (Accepted for publication).

### **BOOK PUBLICATIONS:**

1. Bijumon R and **Bibin K Jose**, Methods of Mathematics, Manjusha Publications (2018) ISBN: 978-93-86218-84-1
2. Bijumon R and **Bibin K Jose**, Calculus with Application in Chemistry- I, Manjusha Publications (2018) ISBN: 978-93-86218-85-8
3. Bijumon R and **Bibin K Jose**, Calculus with Application in Physics- I,, Manjusha Publications (2018) ISBN: 978-93-86218-86-5
4. Bijumon R and **Bibin K Jose**, Calculus with Application in Chemistry- II, Manjusha Publications (2019) ISBN: 978-93-88743-02-0
5. Bijumon R and **Bibin K Jose**, Calculus with Application in Physics- II, Manjusha Publications (2019) ISBN: 978-93-88743-03-7
6. Bijumon R and **Bibin K Jose**, Elementary Number Theory And Calculus-I, Manjusha Publications (2019) ISBN: 978-93-88743-17-4
7. Bijumon R, Aneesh Kumar K,**Bibin K Jose** and Vivek P V, Linear Algebra, Probability Theory and Numerical Methods, Manjusha Publications (2019) ISBN: 978-93-88743-18-1
8. Bijumon R, **Bibin K Jose** and Vivek P V, Calculus wand Linear Algebra, Manjusha Publications (2019) ISBN: 978-93-88743-16-7
9. Bijumon R, **Bibin K Jose** and Vivek P V, Elementary Number Theory and Calculus-II, Manjusha Publications (2020) ISBN: 978-93-88743-72-3
10. Bijumon R and **Bibin K Jose**, Differential Calculus, Sequence and Series, Manjusha Publications (Nov. 2021) ISBN: 978-93-90930-382-8

11. Bijumon R and **Bibin K Jose**, Integral Calculus, Vector Differentiation, Application of Calculus, Sequence and Series, Manjusha Publications (May. 2022) ISBN: 978-93-90930-76-0
12. Bijumon R, Aneesh Kumar K and **Bibin K Jose**, Linear Algebra, Probability Theory and Numerical Methods, Manjusha Publications (Oct. 2012) ISBN: 978-93-90930-27-2
13. Bijumon R, Aneesh Kumar K and **Bibin K Jose**, Linear Algebra, Special Functions and Calculus, Manjusha Publications (Oct. 2012) ISBN: 978-93-90930-28-9
14. Bijumon R and **Bibin K Jose**, Methods of Mathematics, Manjusha Publications (July, 2023) ISBN: 978-93-90930-50-0
15. Araddhana Manisha Arvind Deshmukh, Sumegh Shrikant Threwal, Ravinder S Saini and **Bibin K Jose**, Artificial Intelligence applications in Healthcare, Xoffencer International Publication (April, 2023), ISBN: 978-93-94707-80-1
16. Praveen Chauhan, Rashmi Rani Patro, Rojalini Patro and **Bibin K Jose**, Fuzzy Optimization for Business analytics and Data Science, Xoffencer International Publication (August, 2023), ISBN: 978-81-19534-28-9
17. T.R. Vijaya Lakshmi, N.Saravanan, S.Karthikeyan and **Bibin K Jose**, Python Machine Learning, Lunar Publications (2025), ISBN: 978-81-983635-7-1.

### **BOOK CHAPTER PUBLICATIONS:**

- Chandrashekhar Goswami, Abdullah Samdani, Asif Iqbal Shah, Leszek Ziora, Ananda Ravuri, **Bibin K. Jose**, and Ashwini Kumar Saini (2024) Artificial Intelligence's Function in the Detection and Prevention of Fraud. In Dalia Younis, Ilona Paweloszek, Mamta Chahar, Narendra Kumar, Nino Abesadze, Preeti Narooka. (Ed.) Recent Technological Advances in Engineering and Management (pp 120-124) CRC Press (Taylor & Francis) ISBN 9781032872025.
- M K Sharma, Vijayakumar, **Bibin K Jose**, R. P. Ambilwade, and Revathi R.(2025) Anomaly Detection Using Artificial Intelligence in a Cloud Fuzzy Environment. In Shrikaant Kulkarni and P. William. (Ed.), Advances in AI for Cloud, Edge, and Mobile Computing Applications (pp 25-50) Apple Academic Press, Inc. Hard ISBN: 9781779643735  
E-Book ISBN: 9781003637707

### **LECTURES DELIVERED/PAPER PRESENTATIONS:**

1. Paper on "Set-valuations of Graphs and Hypergraphs" at National Workshop on Uniform Hyper Graphs and their Applications, January 30<sup>th</sup> to February 5<sup>th</sup>, 2008, Sir CRR international institute of Mathematics, Eluru, Andhra Pradesh, India
2. Paper entitled "Open Distance Pattern Uniform Graphs" at International Conference on Discrete Mathematics (ICDM-2008), June 6<sup>th</sup> to 10<sup>th</sup>, 2008, Mysore University, Mysore, India.
3. Paper entitled "On Some Open Problems of Hypergraphs" at International Conference on Mathematics & Computer Science (ICMCS-2008), July 25<sup>th</sup> and 26<sup>th</sup>, 2008, Loyola College Chennai, Tamil Nadu, India.
4. Paper entitled "A note on Conjectures on Balanced Hypergraphs and Disjoint Domination Numbers" at National Seminar on Discrete Mathematics And Applications, March 23<sup>rd</sup> and 25<sup>th</sup>, 2008, Mar Thoma College, Thiruvalla, Kerala.

5. Paper entitled '*A Note Domination in Hypergraph*' in the National Seminar on Discrete and Fuzzy Mathematics and their Applications, 12<sup>th</sup>-14<sup>th</sup>, August, 2010, Mahatma Gandhi College, Iritty, Kannur, Kerala.
6. Paper entitled '*Domination in Hypergraphs*' in the International Conference on Theoretical Computer Science and Discrete Mathematics, 03<sup>rd</sup>-05<sup>th</sup>, December, 2018, SSN College of Engineering, Chennai, Tamil Nadu, India.
7. Resource Person in Mathematics in Techno-Pedagogy Tools Towards Digital Era of Teaching, conducted by Sanatana Dharma College in collaboration with UGC-Humar resource Development Centre, University of Kerala, Trivandrum, 10<sup>th</sup>, October, 2020.
8. Paper entitled '*Open Distance Pattern Uniform Cycle-sets in ODPG Graphs*' in the International Conference on Theoretical Computer Science and Discrete Mathematics, 02<sup>nd</sup>-04<sup>th</sup>, December, 2021, Sri Sivasubramaniya Nadar College of Engineering, Chennai, Tamil Nadu, India.
9. Paper entitled '*Open Distance Pattern Self-Complementary Graphs*' in the Conference on Mathematical Science and Applications in Engineering, 09<sup>th</sup>-10<sup>th</sup>, December, 2021, Hindustan Institute of Technology & Science, Chennai, Tamil Nadu, India.
10. Paper entitled '*Embedding Theorems on Open Distance Pattern Uniform Graphs*' in the 4<sup>th</sup> International Conference on Frontiers in Industrial and Applied Mathematics, 21<sup>st</sup>-22<sup>nd</sup>, December, 2021, Sant Longowal Institute of Engineering & Technology, Longowal, Punjab, India.
11. Paper entitled '*Maximal Outer Planar Open Distance Pattern Uniform Graphs*' in the International Conference on Mathematical Sciences in Engineering and advanced Technologies, 22<sup>nd</sup>-23<sup>rd</sup>, December, 2021, KPR Institute of Engineering and Technology Coimbatore, Tamil Nadu, India.
12. Paper entitled '*Open Distance Pattern Uniform Chordal graphs and Distance Hereditary Graphs*' in the International Conference on Recent Trends in Mathematics, 22<sup>nd</sup>-24<sup>th</sup>, December, 2021, Mahatma Hansraj Faculty Development Centre, University of Delhi, India.
13. Paper entitled '*Open Distance Pattern Uniform Complement Reducible Graphs*' in the International Conference on Recent Advances in Mathematics and Computational Engineering, 06<sup>th</sup>-07<sup>th</sup>, January, 2022, Sri Sivasubramaniya Nadar College of Engineering, Chennai, Tamil Nadu, India.
14. Paper entitled '*On completeness, self centeredness and hereditary properties of  $\mu^n$ -fuzzy graphs*' in the International Conference on Recent Trends in Applied Mathematics, 03<sup>rd</sup>-04<sup>th</sup>, March, 2012, Loyola College, Chennai, Tamil Nadu, India.
15. Paper entitled '*A Characterization of Maximal Outer Planar-Open Distance Pattern Uniform Graphs*' in the Three day International Conference on Analysis and Applied Mathematics, 26<sup>th</sup>-28<sup>th</sup>, April, 2022, Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu, India.
16. Paper entitled '*Internet of Things- Cloud Security Automation Technology Based on Artificial Intelligence*', in the International Conference on Applied Artificial Intelligence and Computing, 09<sup>th</sup>-11<sup>th</sup>, May, 2022, Narasu's Sarathy Institute of Technology, Selem, Tamil Nadu, India.
17. Paper entitled '*A Characterization of Open Distance Pattern Uniform Chordal Graphs and Distance Hereditary Graphs*' in the 1<sup>st</sup> International Symposium on Current Developments in Fundamental and applied Mathematics Sciences, 23<sup>rd</sup>-25<sup>th</sup>, May, 2022.

18. Paper entitled ‘*A note on Balanced Hypergraph and Maximal Independent Set*’ in the International Seminar on Emerging Trends in Graph Theory, 02<sup>nd</sup> -03<sup>rd</sup>, June, 2022, Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu, India.
19. Resource Person for the National Seminar on Recent Advancements in applied Mathematics, 02<sup>nd</sup>, February, 2023, Alphonsa College, Pala, Kerala, India.
20. Paper entitled “Induced Path-Sets in Open Distance Pattern Uniform Graphs” at International Conference on Recent trends in Applied Mathematics (ICRTAM-2023), February 24<sup>th</sup> and 25<sup>th</sup>, 2023, Loyola College Chennai, Tamil Nadu, India.

### **RESEARCH PROJECTS:**

- Completed a UGC minor research project (MRP) of Rs: 1, 40,000/- entitled “**A Study Domination Chain and Related Topics in Hypergraph**” with UGC Reference No.: F.No. MRP(S)-890/10-11/KLKE001/UGC-SWRO in 2012.

### **SEMINAR/CONFERENCE ORGANIZED:**

1. **Co-ordinator:** National seminar on Recent Trends in Analysis, Topology and its Applications, sponsored by department of science and Technology (DST), Govt. of India and Kerala State Council for Science, Technology & Environment (KSCSTE) organized by Department of Mathematics, S. D. College Alappuzha on 18-20, March, 2015.
2. **Organizing (sub) committee member:** 27<sup>th</sup> **Kerala Science Congress**, Organized by Kerala State Council for Science, Technology & Environment, 27-30, January, 2015.
3. **Convener:** UGC Sponsored National seminar on Recent Trends in Analysis, Topology and its Applications, organized by Department of Mathematics, S. D. College Alappuzha on 02-04, December, 2015.
4. **Co-ordinator:** One day workshop on Digital Tools in Research Methodology, organized by Research Monitoring Committee, S. D. College Alappuzha on 18<sup>th</sup> July, 2019

### **MEMBERSHIP IN ACADEMIC BODIES:**

- **Subject expert in the selection committees** for the various appointment/placement of college teachers of M.G. university Kottayam.
- **Chairman, Board of Question Paper setters (BQPS)**, Second semester B.Sc. Artificial Intelligence and Machine Learning Degree Examinations, Kannur University, April, 2024
- **P.G. Board of Studies Member (2023-2017):** University of Kerala, Trivandrum.
- **Chairman, Board of Question Paper setters (BQPS)**, Fifth semester B.Sc. (Honours) in Mathematics Degree Examinations, Kannur University, November, 2023
- **Chairman, Board of Question Paper setters (BQPS)**, First semester M.Sc. Electronics Degree Examinations, Kannur University, October, 2023
- **Chairman, Board of Question Paper setters (BQPS)**, First semester M.Sc. Mathematics (Multivariate Calculus and Mathematical Analysis, Modelling & Simulation), Kannur University, October 2023.
- **Academic Reviewer, MOOC Modules**, Educational Multimedia Reseach Centre, Univesity of Calicut 2023.
- **Chairman, Board of Question Paper setters (BQPS)**, Fourth semester Integrated M.Sc. in Computer Science with Specialization in Artificial Intelligence & Machine Learning Programme, Kannu University, April 2023.

- **Chairman, Board of Question Paper setters (BQPS)**, Second Semester B.Sc. (Honours) in Mathematics, Kannur University, April 2023.
- **Chairman, Board of Question Paper setters (BQPS)**, Fourth semester M.Sc. Mathematics (Multivariate Calculus and Mathematical Analysis, Modelling & Simulation), Kannur University, April 2023.
- **Chairman, Board of Question Paper setters (BQPS)**, Second semester M.Sc. Mathematics (Multivariate Calculus and Mathematical Analysis, Modelling & Simulation), Kannur University, April 2023.
- **Chairman, Board of Question Paper setters (BQPS)**, Fourth semester M.Sc. Mathematics Degree Suppl./Mercy Chance Exams under CCSS 2016 Syllabus, Kannur University, April 2023.
- **Member, Board of Question Paper setters (BQPS)**, First & Second semester B.Sc. Mathematics (CBCSS), University of Calicut, November, 2022.
- **Chairman, Board of Question Paper setters (BQPS)**, Third semester M.Sc. Mathematics, Kannur University, November 2022.
- **Chairman, Board of Question Paper setters (BQPS)**, First semester M.Sc. Mathematics, Kannur University, November 2022.
- Judge for the Mathematics Fair, Kerala School Sastholsavam-2022 held at Ernakulam.
- **Chairman, Board of Question Paper setters (BQPS)**, Fourth semester M.Sc. Mathematics (Multivariate Calculus and Mathematical Analysis, Modelling & Simulation), Kannur University, April 2022.
- **U.G. Board of Studies Member** : Marian College (Autonomous), Kuttickanam.
- **Chairman, Board of Question Paper setters (BQPS)**, Third semester M.Sc. Mathematics (Multivariate Calculus and Mathematical Analysis, Modelling & Simulation), Kannur University, November 2021.
- **Chairman, Board of Question Paper setters (BQPS)**, Second semester M.Sc. Mathematics (Multivariate Calculus and Mathematical Analysis, Modelling & Simulation), Kannur University, April 2021.
- **P.G. Academic Committee Member (2021 onwards)**: Sreenarayanaguru Open University, Kollam
- **Chairman, Board of Question Paper setters (BQPS)**, First semester M.Sc. Mathematics (Multivariate Calculus and Mathematical Analysis, Modelling & Simulation), Kannur University, November 2020.
- Judge in the Kerala School Science, Mathematics, Social Science and Work Experience Fair & Vocational Expo 2019-2020 held at Kunnankulam.
- Supervisor for UG Spot admission 2016-2017 University of Kerala at St Joseph's College for Women Alappuzha.
- Rapporteur: in the Technical session Mathematical & Statistical Science of the 29<sup>th</sup> Kerala science Congress, Government of Kerala.
- **P.G. Board of Studies Member (2013-2017)**: Mahatma Gandhi University, Kottayam
- **Editorial Board Member**: Journal of Mathematical Sciences and Applications, American Journal of Applied Mathematics, Journal of Progressive Research in Mathematics, Applied and Computational Mathematics, Pure and Applied Mathematics Journal,
- **Advisory Board Member**: Technology & Future, Journal of science & Technology
- **Reviewer**: Baghdad Science Journal, AKCE International journal of Graphs and combinatorics, Asian journal of fuzzy mathematics, Journal of Combinatorial Optimization(Springer), Journal

of Basic and Applied Research international, British Journal of Mathematics & Computer Science.

- **Member, FLAIR**, Department of Higher Education, Govt. of Kerala
- Judge in the Kerala School Science, Mathematics, Social Science and Work Experience Fair & Vocational Expo 2010-2011 held at Aluva.
- Life time member in Kerala Mathematical Association (KMA).

#### **MEMBERSHIP IN OTHER BODIES:**

- Worked as a Presiding Officer for the Kerala Municipality Election 2020 at Alappuzha Municipal Council.
- Worked as a Presiding Officer for the Kerala Municipality Election 2015 at Alappuzha Municipal Council
- Working as a Booth Level Officer (BLO) at Booth No. 82 of Kanjirappally Assembly Constituency.
- Worked as a Presiding Officer for the Kerala Municipality Election 2010 at Alappuzha Municipal Council.
- Worked as a Designated Officer on special campaign days with the special Summary revision of Electoral Rolls 2011 at Kanjirappally Assembly Constituency.

#### **CONFERENCE/WORKSHOPS AND SEMINARS ATTENDED:**

1. National Seminar on Recent Trends in Mathematics, 20<sup>th</sup> & 21<sup>st</sup> August 2004, N.S.S. Hindu College Changanassery, Kerala.
2. National Seminar on Algebra and Coding Theory, 18<sup>th</sup> & 19<sup>th</sup> November 2005, St. Dominic's College Kanjirappally, kerala.
3. International Conference on Mathematics & Computer Science, March 1-3, 2007, Loyola College, Chennai.
4. The 5<sup>TH</sup> SERC School on Special Functions and Functions of Matrix Argument: Recent Advances and Recent Applications in Stochastic processes, Statistics, Wavelet Analysis and Astrophysics. 23<sup>rd</sup> April to 25<sup>th</sup> May 2007, Centre for Mathematical Sciences Pala Campus, Kerala. (FIRST RANK).
5. International Conference on Special Functions And Applications & 8<sup>th</sup> Annual Conference of the Society for Special Functions and Applications, May 18-20, 2007, St. Thomas College Pala, Kerala.
6. Second Indo-US Lecture Series on Discrete Mathematical Chemistry & The First International Lecture Series on Discrete Mathematical Chemistry, Biology and Physics with special reference to computational models, June 20-25, 2007, Mary Matha Arts & Science College, Mananthavady, Kerala.
7. Group Discussion on Perfect Graphs and their Applications, November 15-24, 2007, Regional Institute of Education, Mysore, India.
8. National Workshop on Uniform Hyper Graphs and their Applications, January 30<sup>th</sup> to February 5<sup>th</sup>, 2008 at Sir CRR international institute of Mathematics, Eluru, Andra Pradesh, India.

9. Pre-Instructional workshop of International Conference on Discrete Mathematics (ICDM-2008), June 2-5, 2008, Mysore University, Mysore, India.
10. International Conference on Discrete Mathematics (ICDM-2008), June 6-10, 2008, Mysore University, Mysore, India.
11. National Seminar on Discrete Mathematics And Applications, March 23<sup>rd</sup> and 25<sup>th</sup>, 2008, Mar Thoma College, Thiruvalla, Kerala.
12. National Seminar on Recent Trends in graph theory, fuzzy mathematics, Mathematical chemistry and biology, August 12<sup>rd</sup> - 14<sup>th</sup>, 2009, St. Aloysious College, Edathua.
13. National Conference on Recent Trends in Fuzzy and Discrete Mathematics, November 19<sup>th</sup> – 21<sup>st</sup>, 2009, Union Christian College, Alwaye.
14. One day orientation programme to the teaching staff of the colleges on the Regulations of Choice Based Credit and Semester System, December 4, 2009, S. D. College, Alappuzha, Kerala.
15. Seminar on Intellectual Property Rights, February 11<sup>th</sup>, 2010, Sanatana Dharma College, Alappuzha.
16. Instructional Workshop on Mathematical Modeling and Simulation, July 7<sup>th</sup> -14<sup>th</sup> 2010, National Centre for Advanced Research in Discrete Mathematics (n-CARDMATH), Kalasalingam University, Krishnankoil, Tamil Nadu.
17. Orientation programme for college Teachers in Mathematics to familiarize them with the semesterization of thr UG programme under Choice Based Credit and Semester System, July 26<sup>th</sup> -27<sup>th</sup>, 2010, UGC-Academic Staff College, university of Kerala.
18. National Seminar on Discrete and Fuzzy Mathematics and their Applications, 12<sup>th</sup>-14<sup>th</sup>, August, 2010, Mahatma Gandhi College, Iritty, Kannur, Kerala.
19. UGC Sponsored National Seminar on Discrete Mathematics and Computational Statistics, 23-24 June, 2011, B.K. College for Women, Amalagiri, Kottayam, Kerala.
20. UGC Sponsored National Seminar on Recent Trends in Discrete Mathematics and Applications, 11-13 August, 2011, St Thomas College Kozhencherry, Kerala.
21. UGC Sponsored National Seminar on Discrete Mathematics and Applications, 19-20 September, 2011, MES Asmabi College, Kodungallur, Kerala.
22. One Day Workshop on Intellectual Property Rights, 8<sup>th</sup> December 2011, S.D. College, Alappuzha, Kerala.
23. UGC Sponsored Orientation Programme (IT-Oriented), 27<sup>th</sup> December 2011 to 23<sup>rd</sup> January 2012, UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.
24. UGC Sponsored National Seminar on Modern Analysis and its Applications, 23<sup>rd</sup> and 26<sup>th</sup> March, 2012, N.S.S. Hindu College, Changanacherry, Kerala.
25. UGC Sponsored Refresher Course in Mathematics, 5<sup>th</sup> September 2012 to 26<sup>th</sup> September 2012, UGC-Academic Staff College, University of Kerala, Trivandrum, Kerala.
26. National Conference on Discrete Mathematics and Applications, 6<sup>th</sup> December to 8<sup>th</sup> December, 2012, Mar Thoma College Tiruvalla, Kerala.
27. UGC Sponsored National Conference on Graph Theory & Modeling, 25<sup>th</sup> – 27<sup>th</sup> September, 2012, St Berchmans College Changanacherry, Kerala.
28. Two-Day Workshop on the Revision of the Syllabus of FDP Mathematics under CBCSS, 22 - 21, March 2014, Higher Education Council, Govt. Of Kerala, Mar Ivanios College Trivandrum, Kerala.
29. Three-Day Induction Training of the Fostering Linkages in Academic Innovation and Research (FLAIR) Programme, 29<sup>th</sup> September 2014 to 1<sup>st</sup> October 2014, Department of Higher Education, Govt. Of Kerala Kerala Water Authority Training Centre, Trivandrum.

30. 27<sup>th</sup> Kerala Science Congress, Organized by Kerala State Council for Science, Technology & Environment, 27-30, January, 2015, Alappuzha.
31. National seminar on Recent Trends in Analysis, Topology and its Applications, sponsored by department of science and Technology (DST), Govt. of India and Kerala State Council for Science, Technology & Environment (KSCSTE) organized by Department of Mathematics, S. D. College Alappuzha on 18-20, March, 2015.
32. Two day workshop on Restructuring of Curriculum and syllabus of the PG Programme in Mathematics, 9<sup>th</sup> -10<sup>th</sup> March 2016, NSS Hindu College Changanachery, Kerala.
33. UGC Sponsored Special Winter School, 30<sup>th</sup> November 2017 to 20<sup>th</sup> December 2017, UGC-Human Resource Development Centre, University of Kerala, Trivandrum, Kerala.
34. International Conference on Theoretical Computer Science and Discrete Mathematics, 03<sup>rd</sup>-05<sup>th</sup>, December, 2018, SSN College of Engineering, Chennai, Tamil Nadu, India.
35. One day seminar on Analysing and applying Mathematics, 18<sup>th</sup> October 2019, Government College Ambalappuzha, Kerala, India.
36. Short Term Faculty Development Programme on Implementation of Information and Communication technology in Teaching, 18<sup>th</sup> July 2020 to 24<sup>th</sup> July 2020, School of Legal Studied, Cochin University of Science and Technology, Kochi, Kerala, india.
37. Short Term Faculty Development Programme on Towards a Digital Era of Teaching and Learning, 12<sup>th</sup> August 2020 to 18<sup>th</sup> August 2020, UGC-Human Resource Development Centre, University of Kerala, Trivandrum, Kerala.
38. UGC Sponsored Live online Short-Term Course in Student Counseling and Mentoring, 20<sup>th</sup> August 2020 to 26<sup>th</sup> August 2020, UGC-Human Resource Development Centre, University of Kerala, Trivandrum, Kerala.
39. UGC Sponsored Live online Short-Term Course in Advanced Group Theory, 16<sup>th</sup> December 2020 to 22<sup>th</sup> December 2020, UGC-Human Resource Development Centre, University of Kerala, Trivandrum, Kerala.
40. International Conference on Theoretical Computer Science and Discrete Mathematics, 02<sup>nd</sup>-04<sup>th</sup>, December, 2021, Sri Sivasubramaniya Nadar College of Engineering, Chennai, Tamil Nadu, India.
41. International Conference on Mathematical Science and Applications in Engineering, 09<sup>th</sup>-10<sup>th</sup>, December, 2021, Hindustan Institute of Technology & Science, Chennai, Tamil Nadu, India.
42. The 4<sup>th</sup> International Conference on Frontiers in Industrial and Applied Mathematics, 21<sup>st</sup>-22<sup>nd</sup>, December, 2021, Sant Longowal Insitute of Engineering & Technology, Longowal, Punjab, India.
43. International Conference on Mathematical Sciences in Engineering and advanced Technologies, 22<sup>nd</sup>-23<sup>rd</sup>, December, 2021, KPR Institute of Engineering and Technology Coimbatore, Tamil Nadu, India.
44. International Conference on Recent Trends in Mathematics, 22<sup>nd</sup>-24<sup>th</sup>, December, 2021, Mahatma Hansraj Faculty Devolopement Centre, University of Delhi, India.
45. International Conference on Recent Advances in Mathematics and Computational Engineering, 06<sup>th</sup>-07<sup>th</sup>, January, 2022, Sri Sivasubramaniya Nadar College of Engineering, Chennai, Tamil Nadu, India.
46. International Conference on Recent Trends in Applied Mathematics, 03<sup>rd</sup>-04<sup>th</sup>, March, 2012, Loyola College, Chennai, Tamil Nadu, India.
47. Three day International Conference on Analysis ans Applied Mathematics, 26<sup>th</sup>-28<sup>th</sup>, April, 2022, Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu, India.
48. International Conference on Applied Artificial Intelligence and Computing, 09<sup>th</sup>-11<sup>th</sup>, May, 2022, Narasu's Sarathy Institute of Technology, Selem, Tamil Nadu, India.

49. The 1<sup>st</sup> International Symposium on Current Developments in Fundamental and applied Mathematics Sciences, 23<sup>rd</sup> -25<sup>th</sup>, May, 2022.
50. International Seminar on Emerging Trends in Graph Theory, 02<sup>nd</sup> -03<sup>rd</sup>, June, 2022, Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu, India.
51. 4<sup>th</sup> International Conference on Inventive Research in Computing Applications, 21<sup>st</sup>-23<sup>rd</sup> September, 2022, RVS College of Engineering & Technology, Coimbatore, Tamil Nadu, India.
52. One Day Orientation Programme on Valuation of Answer Scripts, 10<sup>th</sup> October, 2023, MSM College Kayamkulam
53. International Conference on Edge Computing and Applications, 13-15 October, 2022, Gnanamani College of Technology, Namakkal, Tamil Nadu, India.
54. National Seminar on Recent Advancements in applied Mathematics, 02<sup>nd</sup>, February, 2023, Alphonsa College, Pala, Kerala, India.
55. International Conference on Recent trends in Applied Mathematics (ICRTAM-2023), February 24<sup>th</sup> and 25<sup>th</sup>, 2023, Loyola College Chennai, Tamil Nadu, India

Kottayam  
01-08-2025

**Prof. (Dr.) Bibin K. Jose**