<div align="center">**CURRICULUM VITAE**</div>

**Dr. BIBIN K JOSE**
ASSOCIATE PROFESSOR OF MATHMATICS
SANATANA DHARMA COLLEGE
ALAPPUZHA, KERALA, INDIA          Ph : 9446664908
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## EDUCATIONAL DETAILS:

| Qualification | University/Board | Institution | Year of Passing | % of Marks |
|---|---|---|---|---|
| **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 22nd 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 |

Date of Birth : 10th 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.

## TEACHING EXPERIENCE:

1. **Associate Professor** in the PG & Research Department of Mathematics, **Sanatana Dharma College, Alappuzha** from 20-11-2021 onwards.
2. **Assistant Professor** in the PG & Research Department of Mathematics, **Sanatana Dharma College, Alappuzha from 20-11-2009** to 19-11-2021.
3. 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.
4. 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.

## 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. 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.
4. **Bibin K. Jose**, *Graph Products of Open Distance Pattern Uniform graphs*, Gen. Math. Notes, Vol. 18, No. 2, 2013, pp.67-76.
5. 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.
6. 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

7. 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.

8. 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.

9. 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.

10. S. Venkadatachalam, 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.

11. 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.

12. **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.

13. **Bibin K. Jose**, *Open Distance Pattern Uniform Self-Complementary graphs*, AIP Conference Proceedings, 2797, 020001 (2023)

14. **Bibin K. Jose**, *Open Distance Pattern Uniform Complement Reducible graphs*, AIP Conference Proceedings, 2829, 030001 (2023)

15. 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).

16. 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).

17. 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)

## 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 Chauhhan, Rashmi Rani Patro, Rojalini Patro and **Bibin K Jose,** Fuzzy Optimization for Business analytics abd Data Science, Xoffencer International Publication (August, 2023), ISBN: 978-81-19534-28-9

**LECTURES DELIVERED:**

1. 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, Trivantrum, 10th, October, 2020.

2. Resource Person for the National Seminar on Recent Advancements in applied Mathematics, 02nd, February, 2023, Alphonsa College, Pala, Kerala, 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: 27th 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 18th July, 2019

## MEMBERSHIP IN ACADEMIC BODIES:

- **Academic Reviewer, MOOC Modules,** Educational Multimedia Reseach Centre, Univesity of Calicut 2023.
- **U.G. Board of Studies Member :** Marian College (Autonomous), Kuttickanam.
- **P.G. Academic Committee Member (2021 onwards):** Sreenarayanaguru Open University, Kollam
- 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 29th Kerala science Congress, Government of Kerala.
- **P.G. Board of Studies Member (2013-2017):** Mahatma Gandhi University, Kottayam
- **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).