ALPHONSA COLLEGE PALA

Re-accredited by NAAC with 'A+' Grade (5th Cycle) | Affiliated to Mahatma Gandhi University, Kottayam, Keralam

NEXUS 2026

NATIONAL CONFERENCE ON THE NEXUS OF MATHEMATICS, ECONOMICS, AI & DATA SCIENCE

Organised by: **Departments of Mathematics & Economics, Alphonsa College Pala**

NOVEMBER 19–20, 2026

NEXUS 2026 is an interdisciplinary platform organized by Alphonsa College Pala, dedicated to exploring the powerful convergence of mathematical sciences, quantitative economics, and intelligent computing. The conference brings together mathematicians, econometricians, data scientists, and computational researchers to examine how theoretical mathematics and algorithmic models drive modern financial analytics, macroeconomic systems, and artificial intelligence. By advancing quantitative methodologies and data-driven decision sciences, NEXUS 2026 provides a collaborative forum for presenting original research and fostering cross-disciplinary academic partnerships.



KEYNOTE SPEAKERS



Dr. Tessy Tom
Associate Professor & Research Associate, Cyber Security and Digital Twin Technologies Research Centre, Jain (Deemed-to-be University), Bengaluru



Dr. Aswin VS
Assistant Professor,
School of Digital Sciences,
Digital University Kerala,
Trivandrum



Dr. Krishna Nair J
Assistant Professor, School of Social Sciences & Humanities,
VIT-AP University, Amaravati



Dr. Reetha Thomas
Assistant Professor,
Indian Institute of Information Technology (IIIT) Kottayam



Dr. Sini Sabu
Lecturer,
Madras School of Economics,
Chennai, Tamilnadu



Mr. Nithin M
Assistant Professor,
Dept. of Development Economics,
Kerala Agricultural University,
Thrissur

CALL FOR PAPERS

Original, high-quality research contributions are invited for **NEXUS 2026.** Topics of interest for submission include, *but are not limited to*, the following thrust areas:

- **Mathematical Foundations & Modelling:** Applied Math, Continuous & Discrete Optimization, Graph Theory, Operations Research, Dynamical Systems, Fuzzy Logic Systems, Evolutionary Computation.
- **Quantitative Economics & Econometrics:** Financial Analytics, Macroeconomic Modelling, Algorithmic Game Theory, Time Series Forecasting, Empirical Econometrics, Computational Finance.
- **AI & Machine Learning:** Deep Learning, Natural Language Processing, Computer Vision, Reinforcement Learning, Explainable AI (XAI), Multi-Agent Systems, Swarm Intelligence.
- **Data Science & High Performance Computing:** Predictive Analytics, Statistical Computing, Intelligent Systems, Big Data Architectures, Scalable Algorithms, Data Mining.
- **Data-Driven & Computational Applications:** Computational Social Sciences, Algorithmic Decision-Making in Economics, FinTech & Blockchain Analytics, Ethical AI & Algorithmic Fairness.

SUBMISSION & PRESENTATION GUIDELINES

- **Publication:** All accepted extended abstracts will be published in the **Conference Proceedings** with ISBN.
- **Presentation Mode:** Authors may present their papers either **in-person or online**.
- **Submission Channels:** Extended abstracts may be submitted via email to **nexus2026@alphonsacollege.in** or uploaded directly through the online registration form. Extended abstracts must strictly adhere to the prescribed format available on the conference website.

REGISTRATION & CONTACT DETAILS

Website:	**www.alphonsacollege.in/nexus-2026**
Email:	**nexus2026@alphonsacollege.in**
Registration Link:	**https://forms.gle/juTskn3wWHkSgj1N9**

Dr. Sonia K Thomas (Dept of Mathematics) — 📞 **8281879099**
Ms. Smitha Clary Joseph (Dept of Economics) — 📞 **9495989269**

ABOUT THE COLLEGE

Alphonsa College, Pala, established in 1964, is a premier higher education institution for women in Keralam, affiliated with Mahatma Gandhi University, Kottayam. Re-accredited with an 'A+' Grade by NAAC, the college is dedicated to academic excellence, research innovation, and holistic student development. Guided by a vision of empowering women through value-based education, Alphonsa College offers a diverse array of undergraduate, postgraduate, and doctoral programs across science, humanities, and commerce.

ABOUT ORGANISING DEPARTMENTS

Department of Mathematics (Est. 1967): A center for mathematical and computational excellence, offering B.Sc. Mathematics (Hons.) with Specialization in Data Science and Actuarial Science, bridging core mathematical theory with statistical modeling and computational analytics.

Department of Economics (Est. 1967): A pioneer in quantitative economic education, offering B.A. Economics (Hons.) with Specialization in Econometrics & Data Analysis and M.A. Econometrics, emphasizing data-driven economic modeling and empirical analytics.

IMPORTANT DATES

EXTENDED

Abstract Submission Deadline:	**31/10/2026**
Notification of Acceptance:	**02/11/2026**
Submission of Extended Abstract:	**04/11/2026**
Registration Deadline:	**10/11/2026**

REGISTRATION FEE DETAILS

Students:	**₹ 500/-**
Research Scholars:	**₹ 800/-**
Faculty Members:	**₹ 1,000/-**
Industry Personal:	**₹ 1,000/-**

LEADERSHIP & COMMITTEE

PATRON & COLLEGE MANAGER

H.E. Mar Joseph Kallarangatt (Bishop, Eparchy of Pala) — Patron
Rev. Dr. Joseph Kaniyodickal — College Manager

ADMINISTRATIVE COMMITTEE

Prof. Dr. Sr. Minimol Mathew — Principal
Dr. Sr. Manju Elizabeth Kuruvilla — Vice-Principal
Ms. Manju Jose — Vice-Principal
Rev. Fr. Kuriakose Vellachalil — Bursar
Rev. Dr. Jobin Sebastian — Assistant Bursar

ORGANIZING COMMITTEE LEADERSHIP

Dr. Sonia K Thomas — Convenor, Dept of Mathematics
Ms. Smitha Clary Joseph — Co-Convenor, Dept of Economics

Organizing Committee Members:
Dr. Sheena Mathew, Dr. Arya S, Ms. Sandra James, Dr. Julie Thomas, Ms. Neha Renjit, Ms. Anupama S Anilkumar, Ms. Aparna Suresh, Ms. Karthika KS