



ST. TERESA'S COLLEGE (AUTONOMOUS), ERNAKULAM

College with Potential for Excellence

Re-accredited by NAAC with A⁺⁺ Grade & CGPA 3.57 (4th Cycle)

Ranked 37th in NIRF 2022

DST-SERB Sponsored National Conference on Statistical Techniques and Practices for Applied Statisticians and Data Scientists

ORGANIZED BY
DEPARTMENT OF MATHEMATICS
AND STATISTICS

In association with
Teresian Research and
Consultancy Cell (TRACC)



2-3rd
February
2023



INVITATION

Dear Sir/Madam,

In connection with the 75th anniversary celebrations, the Department of Mathematics and Statistics is organizing a DST-SERB sponsored National Conference on Statistical Techniques and Practices for Applied Statisticians and Data Scientists from 2nd to 3rd February 2023. We most cordially invite you to participate in this academic event.

With best regards

Rev. Dr. Sr. Vinitha, CSST
Manager

Dr. Alphonsa Vijaya Joseph
Principal

Smt. Betty Joseph
Vice Principal
Head, Department of Statistics

Dr. Ursala Paul
Head, Department of Mathematics

ABOUT ST.TERESA'S COLLEGE

St. Teresa's College (Autonomous) Ernakulam, Kerala, a pioneering institution committed to the cause of higher learning of women and their empowerment through excellence in teaching, learning and research, was established on 15th June 1925 by the Carmelite Sisters of St. Teresa under the leadership of the visionary foundress Servant of God, Mother Teresa of St. Rose of Lima. This 98- year-old premier Minority Institution provides education in line with the mission of the foundress, aimed at the integral formation of intellectually creative, emotionally mature, morally responsible, spiritually enlightened, socially committed and truly liberated women who will re-position themselves as self-reliant and responsible individuals and agents of change who will transform society. St. Teresa's College is the first women's college in Kochi and the second in the state of Kerala. It holds the honour of being the first aided college for women in the state. The college was granted autonomous status in 2014 and reaccredited by NAAC with A⁺⁺ Grade and CGPA of 3.57 in fourth cycle in August 2019 and was ranked 37th by NIRF in 2022. It has also been recognized as a mentor institution under the UGC Paramarsh Scheme and was awarded a 4 Star Rating in the IIC Institutional Ranking 2022.



ABOUT THE DEPARTMENT

The Department of Mathematics and Statistics, St. Teresa's College (Autonomous) Ernakulam, was established in the year 1948. The department offers B.Sc. Mathematics, M.Sc. Mathematics and M.Sc. Applied Statistics and Data Analytics programmes. The department hosts several national seminars and intercollegiate programmes. Various talks from eminent personalities on currently relevant topics to develop mathematical curiosity as well as to lead successful careers are also conducted. Students are also encouraged to do internships, research projects and publish their research work. The department caters to the overall development of the students through counselling sessions, various competitions, seminars, personality development programmes and remedial classes for weak students.

ABOUT THE CONFERENCE

As committed educationalists, the department of Mathematics and Statistics of St. Teresa's College (Autonomous), Ernakulam, focuses on empowering our students to enter the professional world with full confidence. Abiding by the goals of the **Science and Engineering Research Board (SERB)** of India - **to strengthen deep-expertise in specific domains and to link them through inter-disciplinary and multi-institutional programmes to address challenging national problems**, the sessions of this conference are designed to educate students in utilizing statistical reasoning to deal with the present social challenges such as global pandemic, climate change, terrorism, political war fares etc. The conference would bring together leading subject experts and prominent industrialists to share their experiences and research results which would indeed expose the students to the scope and depth of the subject. It aims at introducing the most innovative statistical tools, technologies, visualizations and data sources along with its potentials and limitations. This international conference would be a primary interdisciplinary platform to showcase and review the recent revolutions, trends, and concerns along with the practical challenges faced, and possible solutions adopted. This would definitely point out the importance of Statistics Education in developing technical skills of students and would help them to attain a critical understanding of key social facts through statistical interpretation of various social events.



SPEAKERS



ROLE OF STATISTICS IN DATA SCIENCE

Dr. Tirupathi Rao Padi

Professor of Statistics, and Dean, Faculty of Mathematical Sciences
Pondicherry University



USAGE OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN STATISTICS FOR SOCIO ECONOMIC STUDIES

Dr. Sharvari Shukla

Director, Symbiosis Statistical Institute, Pune



STATISTICAL METHODS IN SURVIVAL ANALYSIS

Dr. Asha Gopalakrishnan

Senior Professor, Department of Statistics, Cochin University of Science
and Technology, Kochi



NEW STATISTICAL METHODOLOGIES AND BEST PRACTICES IN STATISTICAL ANALYSIS AND DESIGN

Dr. Kaushik Jana

Assistant Professor, Department of Statistics, Ahmedabad University, Gujarat



USE OF STATISTICAL MODELS FOR SOLVING PROBLEMS IN APPLIED ANALYSIS AND ASTROPHYSICS

Dr. Dilip Kumar

Assistant Professor, Department of Mathematics, Kerala University
Thiruvananthapuram.



PROPER INTERPRETATION OF DATA TO FACILITATE MORE INFORMED DECISION MAKING

Dr. Sudheesh Kumar Kattumannil

Associate Professor, Applied Statistics Unit, Indian Statistical Institute, Chennai

CALL FOR PAPERS

This conference provides an opportunity to the participants to share their expertise and research output. The abstract of the research papers should be sent by e-mail to **mathematics@teresas.ac.in** on or before 15th January 2023. After a preliminary screening, the selected paper presenters will be notified personally through e-mail by 17th January 2023. The shortlisted candidates will have to pay the registration fees before 25th January 2023. The full paper of the selected abstracts and the power point presentation should be emailed to the department on or before 26th January 2023. The selected papers will be published in the conference proceedings with ISBN number.

GUIDELINES FOR THE CONTRIBUTORS:

Abstracts of proposed papers (Language - English) should be sent to the email: **mathematics@teresas.ac.in** by 15th January 2023. All abstracts and full papers shall be arranged in M.S. Word Format as:

- Title of paper: Bold, font size 14.
- Names of Author(s): First Name, Last Name. (Name of corresponding author should be marked with an asterisk)
- Affiliations of all authors
- Email id of the corresponding author
- Body of paper: Font- Times New Roman, Font size 12, Line space: 1.5 space.
- Word count: 250-300 words for abstract and 2500-3000 words for full paper.
- References: MLA format

*Papers without registration fees will not be accepted.

Important Dates

Last date for Registration : 25th January, 2023

For Paper Submissions

Last date for Abstract Submission : 15th January, 2023

Notification for Abstract Acceptance : 17th January, 2023

Last date for Full Paper Submission : 26th January, 2023

Registration fees

Faculty / Industry Members : Rs. 2000

Research Scholars : Rs. 1000

Students : Rs. 500

Payments by participants can be done via NEFT/RTGS/IMPS/ Google pay to the account details mentioned below

Account No: 0024053000019416

Account name: DEPARTMENT OF MATHEMATICS

Bank -South Indian Bank, Market road, Ernakulam

IFSC code:SIBL0000024



Please fill up the google form after remitting the registration fee. You are requested to upload the screenshot of the payment details.

CLICK HERE TO REGISTER

ORGANISING COMMITTEE

Patrons

Rev. Dr. Sr. Vinitha CSST, Manager

Rev. Sr. Emeline CSST, Director

Dr. Alphonsa Vijaya Joseph, Principal

Conveners

Dr. Ursala Paul, Head, Department of Mathematics

Smt. Betty Joseph, Vice Principal & Head, Department of Statistics

Organizing Committee Members

Smt. Shanty B. P.

Dr. Susan Mathew Panakkal

Dr. Elizabeth Reshma M.T.

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