

DEPARTMENT OF MATHEMATICS

International Seminar on Trends in Mathematics

30.10.2021 – 01.11.2021

❖ INVITATION

ST. MARY'S COLLEGE (AUTONOMOUS)
 ISO-ACCREDITED WITH 12th GRADE BY CBSE
 THIRUVIDYAKOTTAI-610 001, TAMIL NADU, INDIA

Department of Mathematics
 and
 St. Mary's Mathematics Research Forum
ORGANISE

**INTERNATIONAL SEMINAR
 ON
 TRENDS IN MATHEMATICS**

Register Now

October 30 | **01**

9:00 P.M. IST | 8:30 A.M. IST | 9:15 A.M. IST | 9:45 A.M. IST | 8:00 P.M. IST

Dr. T. Balu
 Head and Professor, Department of Mathematics, Madurai Kamaraj University, Madurai, Tamil Nadu, India

Dr. Anandha Aravindan
 Head and Professor, Department of Mathematics, Madurai Kamaraj University, Madurai, Tamil Nadu, India

Rev. Dr. M. Chinnappaiah
 Head and Professor, Department of Mathematics, Madurai Kamaraj University, Madurai, Tamil Nadu, India

Dr. S. S. Subramanian
 Head and Professor, Department of Mathematics, Madurai Kamaraj University, Madurai, Tamil Nadu, India

Dr. Srinivasan Narasimhan
 Head and Professor, Department of Mathematics, Madurai Kamaraj University, Madurai, Tamil Nadu, India

Topics: Topological Aspects of Fractal and Self-Similarity, Discussion, Application of Mathematics in Parametric Science, Superlattice Approximation of Networks of Networks, Fractals, Coding Graphs and Modeling Force of Epidemic Outbreak

BEST WISHES FROM
 Rev. Sr. Flora Mary, Secretary
 Rev. Dr. Sr. A. S. J. Lucia Bose, Principal
 Rev. Sr. Josephine Jayaram, Director of SOC

CONVENER
 Dr. V. L. Stella Arpantha Mary

ORGANISING SECRETARIES
 Dr. Sr. S. Ethandial Theodosia
 Dr. G. Princytha Pacifica

ORGANISING COMMITTEE
 Dr. A. Poothia Theodosia
 Dr. J. Arul Jasti

DAY 01 | **DAY 02**
 Working ID: 634 2420 4476 | Working ID: 672 2441 9824
 Password: math@stmc

Department of Mathematics:

The Department of Mathematics is rich in its functioning. It has great reputation and dynamic growth reflected in the academic and intellectual achievements of students. In 1954, B.A. Mathematics course was started and continued as B.Sc. Mathematics from 1957 onwards. M.Sc. Mathematics was introduced as a self-financing course from the academic year 2000. The department was elevated into a research department in the year 2014 with Ph.D. (Full Time & Part Time) Programme. Now there are 6 research guides in the department and 23 research scholars are pursuing their doctorates. So far 4 have been awarded doctoral degree.

About St. Mary's Mathematics Research Forum:

St. Mary's Mathematics Research Forum was inaugurated on 7th July 2021. The forum is the first of its kind in Theotokos to mark the Platinum Jubilee of the Mathematics Department and is the bridge between the researchers and the research. The forum provides venue for the faculty and the research scholars to present their scholarly efforts and in which the campus celebrates the wealth of research across all fields of Mathematics carried out by the dedicated faculty and researchers across the nation. The forum contributes to the continuing professional development of the faculty in all contemporary fields and areas of research in Mathematics. By bringing the faculty together with scholars working in closely allied fields and providing a formal structure for their interaction. The aim of the forum is to impose the purpose of the research work among researchers and to help them understand what should be done and not be done in research.

Advisory Committee Members:

Dr. Paul Manoj
 Professor of Information Science
 Kuvempu University
 Kannur

Dr. H. Lellis Thevagar
 Head and Professor
 Department of Mathematics
 Madurai Kamaraj University
 Madurai, Tamil Nadu, India

Local Body Committee Members:

Dr. S. Kala
 Head and Professor
 Department of Mathematics
 Madurai Kamaraj University
 Tirunelveli, Tamil Nadu, India

Dr. S. Pious Mianar
 Former Principal
 Don Bosco College of Arts and Science
 Karaikal, Tamil Nadu, India

Dr. A. Lakshminarayana
 IQAC Director and Associate Professor
 Department of Mathematics
 St. Xavier's College (Autonomous)
 Palayamkottai, Tamil Nadu, India

Dr. S. Ponnambalaganathan
 Head and Associate Professor
 Department of Mathematics
 Adhinar College of Arts and Science
 Tiruchendur, Tamil Nadu, India

Dr. K. Palani
 Head and Associate Professor
 Department of Mathematics
 A. P. C. Mahalingam College for women
 Thoothukudi, Tamil Nadu, India

Dr. S. Sreedevi Pathman
 Assistant Professor
 Department of Mathematics
 Sathya Sai Baba College
 Tiruchendur, Tamil Nadu, India

❖ SCREENSHOTS

Fourth Dimension ?

Time


8:00 AM

INTRODUCTION

- History of Mathematics
- The role of Mathematics in the development of Science and Technology
- The role of Mathematics in the development of Society

$f(x) = \frac{1}{x^2} = x^{-2}$


$f'(x) = -2x^{-3} = -\frac{2}{x^3}$



Convolution \equiv A new product


- ▶ **Requirements:**
- ▶ Let f and g be 2 continuous (or piecewise continuous) functions defined on \mathbb{R}
- ▶ **At least** one of f and g vanishes as $x \rightarrow \infty$
- ▶ **Definition:**
- ▶ $(f * g)(x) = \int_{-\infty}^{\infty} f(t)g(x-t) dt$


❖ CERTIFICATE



St. Mary's College (Autonomous)
(Re-accredited with 'A+' Grade by NAAC)
 Thoothukudi-628 001, Tamil Nadu, INDIA


Department of Mathematics
 and
 St. Mary's Mathematics Research Forum



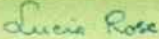


CERTIFICATE OF PARTICIPATION

This is to certify that Ms. S. Lourdu Elqueen, Research Scholar of Mathematics, St.Mary's College (Autonomous) , Thoothukudi, has actively participated in the **International Seminar on "Trends in Mathematics"** organised by the Department of Mathematics and St.Mary's Mathematics Research Forum from 30.10.2021 to 01.11.2021.



Dr.V.L.Stella Arputha Mary
CONVENOR & HEAD OF THE DEPARTMENT



Dr. Sr. A. S. J. Lucia Rose
PRINCIPAL

❖ REPORT

Department of Mathematics and St. Mary's Mathematics Research Forum organised a two day International Seminar on Trends in Mathematics on 30th October and 1st November 2021. There were five sessions in the seminar. Dr.T.Baiju, Associate Professor-senior scale, Department of Mathematics, Manipal Institute of Technology,

Manipal, Karnataka, India delivered lecture on the topic "Topological aspects of fuzzy set and soft set" in session 1. Mr. Andrew Arokiaraj, PGT, Department of Mathematics, Shraddha Children's Academy, Chennai, Tamil Nadu, India delivered lecture on Dimensions in session 2. Rev. Fr. Chiranjilal Kujur, Assistant Professor, Department of Mathematics, St. Joseph's College, Darjeeling West Bengal, India handled session 3 and he delivered talk on Application of Mathematics in Forensic science.

Dr. Jill K. Mathew, Assistant Professor, Department of Mathematics, Mar Ivanios College (Autonomous), Thiruvananthapuram, Kerala, India presented lecture on Sequential Approximation of Piecewise Continuous functions in session 4. Final session was handled by Dr. Debajyoti Mondal, Assistant Professor, Department of Computer Science, University of Saskatchewan, Saskatoon, Canada. He delivered lecture on Coloring Graphs and Breaking Free of Bichromatic Cycles. This International Seminar brought together the leading academic experts, researchers and research scholars to exchange and share their experiences and research results on all aspects of Mathematical Concepts. It also provided a premier interdisciplinary platform for researchers. The participants had a good exposure in various fields of Mathematics and equipped well to meet the challenges of the field.

V.L. Stella Arputha Mary
Head of the Department

B. Serena Margaret
IQAC Coordinator

Lucia Rose
Principal

Dr. V.L. Stella Arputha Mary
M.Sc., M.Phil., B.Ed., Ph.D.,
Head & Asst Professor of Mathematics
St. Mary's College (Autonomous)
Thoothukudi-628 001.

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

St. Mary's College (Autonomous)
Thoothukudi-628 001.