



# St. John's College, Palayamkottai, Tirunelveli 627 002, India

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

## IQAC Sponsored Two-day International Conference on RECENT TRENDS IN MODERN MATHEMATICS (RTMM-2021)

Organized by PG & Research Department of Mathematics

23<sup>rd</sup> & 24<sup>th</sup> September 2021



### ABOUT THE INSTITUTION

St. John's College, Palayamkottai, established in 1878, by Church Missionary Society, England at Palayamkottai, in Tamilnadu, is a major College imparting higher education in the fields of Arts and Science. The College is one of the first four oldest Colleges in the undivided Madras State. A small and unpretentious Anglo-vernacular School established by the Church Missionary Society in 1844 in a hired house at Palayamkottai was the tiny seed from which grew the magnificent St. John's College. This Government Aided College was affiliated with Madurai Kamaraj University previously and since 1990 affiliated to Manonmaniam Sundaranar University, Tirunelveli. It has also been recognized by the UGC under section 2(F) and 12(B) in 1956 to receive institutional grants. The College has now completed 143 years of service in the cause of higher education with the status of a first grade postgraduate Institution, fulfilling the vision of its founder, the Rev. Schafter. This has become possible entirely due to the prayers, devotion, zeal and tireless service of the Church Missionaries.

The College has 10 UG courses, 5 PG courses, 1 M.Phil. programme under aided stream and has 10 UG courses, 7 PG courses, 5 M.Phil. programme under un-aided stream. Also 8 departments have been upgraded as Research Centres and actively doing their research with more than 164 scholars under 53 recognised research supervisors.

### ABOUT THE DEPARTMENT

The Department of Mathematics of St. John's College is as old as the College itself and it has the unique honour of having had scholars like Dr. R.P. Burn from England, and Dr. S. Arumugam. At first Mathematics was offered as an optional paper for intermediate courses. In 1945, taking into account the growing demand to study Mathematics, B.Sc., Mathematics was introduced under the affiliation of Madras University and then came under the Madurai Kamaraj University in early days. M.Sc. Mathematics was introduced in 1967, when the renowned thinker, Dr.R.P.Burn was heading the Department. St. John's was the first college in the southern districts and was the third College in the Madurai University to offer M.Sc., degree in Mathematics.

In 2008, M.Phil. Mathematics was introduced. In 2017, both UG and PG Mathematics courses were started under self-financing schemes. It has been upgraded into Research Centre in 2017. It has a set of 18 qualified faculty members under aided and self-financing schemes; 16 research scholars are now doing their research in a variety of areas.

### ADDRESS FOR CORRESPONDENCE

Dr. (Mrs.) G.S. Grace Prema,  
Associate Professor & Head,  
PG & Research Department of Mathematics,  
St. John's College, Palayamkottai 627 002, India.

Email id: [maths@stjohnscollege.edu.in](mailto:maths@stjohnscollege.edu.in)

Dr. (Mrs.) S. Shyamala Malini +91 82201 86948

Mr. R. Arul Ananthan +91 94990 15094

### OBJECTIVE OF RTMM-2021

The Aim of the conference (RTMM-2021) is to provide a stage for academicians, scientists, research scholars, industrial participants and budding students around the world to share their ideas and research findings in Modern Mathematics with the global experts. RTMM-2021 will take place through online platform. It will include invited talks and paper presentation sessions.

### CALL FOR PAPERS

Authors are invited to submit their original and unpublished research articles in any of the relevant topics include, but are not limited to: Graph Theory, Algebraic Graph theory, Algebra, Linear Algebra, Network Sciences, Graphs from Algebraic Structures, Topology, Fuzzy sets, Mathematical Analysis, Differential Equations, Dynamical Systems, Algorithms and Computational Complexity.

### PAPER SUBMISSION PROCESS

Authors are requested to submit the abstract of research paper in the prescribed Template for presentation (not exceeding 250 words) through Abstract Submission Link <https://forms.gle/UpEq85tMkjN4q2qZ6>.

Authors will be informed about the acceptance of their papers based on the recommendations of peer review committee through the mail. After getting the notification of acceptance, Authors are instructed to fill the registration form and then they will be eligible to present their paper in RTMM-2021.

After completing the presentation in RTMM-2021, Authors are requested to submit their full paper, either in word or in LaTeX format, to the email id [maths@stjohnscollege.edu.in](mailto:maths@stjohnscollege.edu.in). The full paper should be modified by considering the suggestions/corrections given by the resource person(s) / participant(s) at the time of presentation. The template of the full paper will be sent to your registered e-mail id.

### PUBLICATION OF PAPERS

E-copy of the Conference Proceeding (Abstract only) will be published at the time of Conference. All the submitted full papers will be published in the **Conference Proceedings with ISBN number**.

**Note:** Printable Participation Certificate will be given to all participants. The Presentation Certificate will be issued to the author who presents the paper in RTMM-2021.

### IMPORTANT DATES

Last date for Submission of Abstract : **17.09.2021**  
Last date for registration : **21.09.2021**  
Last date for submission of Full Paper : **02.10.2021**

### IMPORTANT LINKS

#### For Registration:

<https://forms.gle/5PwhcUfLbT3p8TiC9>

#### For Abstract Submission:

<https://forms.gle/UpEq85tMkjN4q2qZ6>

#### For Abstract Template:

<https://docs.google.com/document/d/1W7p8wKEozcuEMt2Tr0apqA3-DjldcDVP/edit?usp=sharing&ouid=109322115571925256624&rtfpof=true&sd=true>

### REGISTRATION FEE

For Presentation (Indian delegates) : ₹ 500/-  
For Presentation (International delegates) : ₹ 800/-  
For Participation alone : ₹ 100/-

### MODE OF PAYMENT

Name of the A/C : MR. CORRESPONDENT  
A/C No. : 152100050200126  
Name of the Bank : Tamilnad Mercantile Bank  
Name of the Branch : Palayamkottai  
IFSC CODE : TMBL0000152  
MICR CODE : 627060003

### RESOURCE PERSONS

- **Dr. T. Tamizh Chelvam**  
Emirates Professor  
Department of Mathematics,  
Manonmaniam Sundaranar University,  
Tirunelveli, Tamil Nadu, India
- **Dr. Wafaa M. Fakieh**  
Professor  
Department of Mathematical Sciences,  
King Abdulaziz University,  
Jeddah 21461, Saudi Arabia
- **Dr. Lavanya Selvaganesh**  
Department of Mathematical Sciences,  
Indian Institute of Technology (BHU),  
Varanasi, Uttar Pradesh, India
- **Dr. T. Asir**  
Assistant Professor and Head i/c  
Department of Mathematics-DDE  
Madurai Kamaraj University  
Madurai-625021, Tamilnadu, India

### ORGANIZING COMMITTEE

#### Chairman

Rt. Rev. Dr. D. Chandrasekaran  
Moderator's Commissary, CSI Tirunelveli Diocese

#### Chief Patron

Mr. K. P. K. Selvaraj  
Secretary & Correspondent

#### Patrons

Dr. S. John Kennady Vethanathan  
Principal

Dr. A. Arulgnanam  
IQAC Coordinator

#### Organizing Secretaries

Dr. (Mrs.) G.S. Grace Prema,  
Associate Professor & Head,  
PG & Research Department of Mathematics, SJC.

Dr. J. Vijaya Xavier Parthipan,  
Associate Professor in Mathematics, SJC.

#### Conveners

Dr. (Mrs.) J. Subhashini, Assistant Professor, SJC,  
Dr. (Mrs.) S. Shyamala Malini, Asst. Prof., SJC.

#### Co-conveners

Mrs. S. Vijila Velvet Daisy, Associate Prof., SJC,  
Mrs. T. Santhakumari, Assistant Professor, SJC.

#### Coordinators

Mrs. W. Rajammal Ranjitha Mary, Asso. Prof., SJC,  
Mr. Jeshua Rajan, Assistant Professor, SJC,  
Mrs. P. Gino Metilda, Assistant Professor, SJC,  
Mr. R. Arul Ananthan, Assistant Professor, SJC.

#### Advisory Committee

Mr. V. Selvan, Assistant Professor, SJC,  
Miss. C. Henrietta Johnsy, Assistant Prof., SJC,  
Mrs. J. Rani Novalina Julius, Assistant Prof., SJC,  
Mr. C. Prabhu Daniel, Assistant Professor, SJC,  
Mr. S. John Augustine, Assistant Professor, SJC,  
Mrs. T. Pushpam, Assistant Professor, SJC.