

Day I

Inaugural Session

9.30 am to 10.30 am

Keynote Address : Dr. Sandra Pinelas

Academia Militar,
Departamento de Ciencias Exactas e Naturais,
Av. Conde Castro Guimaraes,
2720-113, Amadora, Portugal.

Tea Break

Technical Session I : 11.00 am -12.00 am

Dr. Sandra Pinelas

Academia Militar, Departamento de Ciencias Exactas e Naturais,
Av. Conde Castro Guimaraes,
2720-113, Amadora, Portugal.

Topic : Delay Differential Equations with Impulse

Technical Session II : 12.00 pm -1.00 pm

Dr. G. Britto Antony Xavier

Associate Professor of Mathematics,
Sacred Heart College (Autonomous),
Tirupattur-635 601.

Topic : Derivative Graphs of Exponential Functions with Applications

Lunch Break

Paper Presentation : 2.00 pm - 3.30 pm

Day II

Technical Session III : 9.30 am -10.30 am

Dr. A. Rizwana

Assistant Professor of Mathematics,
V.H.N Senthikumara Nadar College (Autonomous),
Virudhunagar - 626 001.

Topic : Topological Indices and Energy in Graphs

Tea Break

Technical Session IV : 11.00 am -12.00 am

Dr. J. Paulraj Joseph

Professor & Head (Rtd), Department of Mathematics,
Manonmaniam Sundaranar University,
Tirunelveli - 627 012.

Topic : Recent Developments in Graph Theory

Lunch Break

Paper Presentation : 1.00 pm - 2.30 pm

Valedictory Session : 2.30 pm - 3.15 pm

ORGANIZING BOARD

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Dr. Sr. Mary Gilda

Secretary, Holy Cross College (Autonomous), Nagercoil.

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Dr. Sr. Sahyagelvi

Principal, Holy Cross College (Autonomous), Nagercoil.

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Head and Assistant Professor of Mathematics
Holy Cross College (Autonomous), Nagercoil.

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Head and Associate Professor of Mathematics
Sacred Heart College (Autonomous), Tirupattur.

Dr. G. Britto Antony Xavier

Editor in Chief, Journal of Computational Mathematics
Associate Professor of Mathematics
Sacred Heart College (Autonomous), Tirupattur.

Dr. J. Paulraj Joseph

Professor & Head (Rtd), Department of Mathematics,
Manonmaniam Sundaranar University,
Tirunelveli - 627 012.

Organizing Secretaries

Dr. J. Befija Minnie

Assistant Professor of Mathematics
Holy Cross College (Autonomous), Nagercoil.

Dr. A. Jancy Vini

Assistant Professor of Mathematics
Holy Cross College (Autonomous), Nagercoil.

Contact for Further details

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PG AND RESEARCH
DEPARTMENT OF MATHEMATICS



**HOLY CROSS COLLEGE
(AUTONOMOUS)**

Affiliated to Manonmaniam Sundaranar University
Accredited with A+Grade (CGPA 3.35) by NAAC-IV Cycle
Nagercoil-629 004, Kanyakumari District,
Tamil Nadu, India.

In collaboration with the

DEPARTMENT OF MATHEMATICS
**Sacred Heart College
(Autonomous)**

Tirupattur District - 635 601
Tamil Nadu, India.

Organizes an

**International Conference on
Harmonizing Graph Theory and
Differential Equations in the
Age of Industry 4.0**

ICHGD-2024

On 12th and 13th February 2024

Venue:

Multipurpose Hall
Holy Cross College (Autonomous)
Nagercoil-4.

About the College

Holy Cross College (Autonomous), Nagercoil is a Catholic educational institution, established and administered by the Sisters of the Cross of Chavanod, France founded by Mother Claudine Echernier. It is the first women's college in Kanyakumari District. The college is under the religious jurisdiction of the Catholic Bishop of Kottar. The Institution was Inaugurated on 2nd August 1965. This temple of learning, at the southern most tip of the country, against the Sylvan background with beautiful buildings, was wrought with the magic touch, an amazing alchemy by which a wilderness was transformed into a pasture, a barren land into a rich field with manifold yield. The College was raised to a first grade college in 1966 and was affiliated to the Madurai Kamaraj University, offering undergraduate courses in Mathematics, Physics, Chemistry, Botany, Zoology, History, Economics, Commerce and English and Post Graduate (PG) courses in Mathematics, Physics, Zoology and English. Since 1990, the college is affiliated to Manonmaniam Sundaranar University, Tirunelveli. The College was conferred Autonomous status in 2007 and Extension of Autonomy was granted in November 2016. The college has undergone four cycles of accreditation by National Assessment and Accreditation Council. In 1999, the college was accredited at the 4 star level and re-accredited at the 'B++' level in the year 2005. In the III Cycle of Accreditation in the year 2013, our college was re-accredited with 'A' Grade with CGPA 3.34. In the fourth cycle the college is awarded 'A+' grade with CGPA 3.35.

About the Department

The Department of Mathematics started functioning with the induction of the PUC programme in the year 1965. The UG programme was introduced in 1966 and the PG programme in 1978. To meet the increasing demand of the Mathematics Programme the Self financed UG and PG programmes were started in 2010 and 2016 respectively. Because of the tireless efforts of the faculty, the department has been upgraded as a PG and Research Department in 2019. Keeping in view the globalization of higher education, the curriculum is modified and restructured once in three years. Learning Outcome based Curriculum Framework has been introduced for the UG and PG programme from the academic year 2020-2021 which enriches students learning experience with higher order thinking and experiential learning.

About Sacred Heart College

Sacred Heart College is an Autonomous Educational Institution Accredited by NAAC (4th Cycle) with A+ grade [3.31]. It is a minority Institution established in 1951 and administered by the Salesians of Don Bosco (SDB). The college has marked a reawakening for Tirupattur District nested between Chennai and Bangalore with the motto Ad Omne Opus Bonum Instruction (Ready for every good work). The college ever ventures into new initiatives for the development of human society.

About the Department of Sacred Heart College

The Department of Mathematics was established in the year 1954 with Undergraduate B.Sc degree in Mathematics. The M.Sc degree is being offered from the year 1980. It also offers a undergraduate B.Sc degree and M.Sc degree in the shift-2 mode from the year 1989 and 2015 respectively. From the year 2000 onwards, the department has emerged as a full fledged research department offering M.Phil and Ph.D programmes. 35 Ph.D research scholars have completed their research successfully from the Dept. Of Mathematics. The areas of research are Difference Equations, Differential Equations, Fluid Dynamics, Functional Equations, Stochastic Process, Fuzzy set theory and Graph Theory.

Objective of the Conference

One of the widely accepted ideas in mathematics education community is that students must learn, how to apply mathematics in other branches and daily life. The main purpose of conducting this International Conference is to inspire and motivate the students and scholars to keep themselves abreast of the latest developments in the areas of mathematics and its applications. The conference includes keynote addresses and invited talks by the eminent invited speakers and the oral presentation by researchers.

Hence, it provides an excellent platform for mathematical scientists and mathematics learning community to share their experiences in handling real life problems through mathematical ideas.

Call for papers

Original papers are invited from Academicians and Research Scholars and student community on topics covered under all areas of Mathematics. Authors will be intimated about the acceptance of the papers based on the recommendations of the peer review committee. The accepted papers will be published in Proceedings with ISBN number.

Guidelines for paper submission

Authors are requested to submit the full research article in LaTeX format, not exceeding 8 pages. The paper should consist of Title, Abstract, Keywords, AMS subject classification, Introduction, Research Findings, Conclusion and References. Submission of articles must be of original contribution and should not have been presented or published elsewhere. Submit the papers in the following e-mail id : ichgtde24@gmail.com

Important Dates

Last date for Abstract Submission : 27.01.2024

Last date for Full Paper Submission : 04.02.2024

Accepted papers will be notified on : 07.02.2024

Send the Abstract through the e-mail id : ichgtde24@gmail.com

Registration Details

Students : Rs. 400/-

Research Scholars : Rs.600/-

Faculty : Rs.700/-

Foreign Scholars : \$70