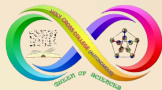# Holy Cross College (Autonomous)

Affiliated to Manonmaniam Sundaranar University
Accredited with A++ Grade (CGPA 3.53 - V Cycle) by NAAC
ISO 9001: 2015 Certified Institution
Nagercoil-629004.

INTERNATIONAL CONFERENCE

On

MATHEMATICS BEYOND BORDERS: THEORY, APPLICATIONS, SKILLS AND FUTURE PERSPECTIVES

20th & 21st March, 2025
Venue: Multipurpose Hall

Organized by

PG & RESEARCH DEPARTMENT OF MATHEMATICS,
HOLY CROSS COLLEGE (AUTONOMOUS),
NAGERCOIL - 629004.

About the College

Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University, Tirunelveli is the first women's College in Kanyakumari District established on 2nd August 1965 and administered by the Congregation of the Sisters of the Cross of Chavanod France with the thrust on Empowerment of Women. The College was conferred Autonomous status in 2007 and accredited with A++ Grade (CGPA 3.53) by NAAC in the V cycle. The College aims for total liberation and development of the whole personality of the students in order to take their right place and responsibility in society.

About the Department

The PG & Research Department of Mathematics was established in 1966 with a strong commitment to the holistic development for students. The department is dedicated to providing high-quality education in Mathematics. It offers B.Sc., M.Sc., and Ph.D. programs, ensuring comprehensive academic growth. The faculty comprises highly qualified, experienced, and dedicated educators who specialize in emerging areas of mathematics. With a focus on innovation and excellence, the department continuously enhances its teaching methodologies. It strives to empower students with critical thinking and problem-solving skills to meet future challenges. The curriculum is designed to prepare students for academic, research, and professional careers in mathematics. Through rigorous training and guidance, students are encouraged to achieve their academic and professional goals. The department fosters an environment that promotes intellectual curiosity and research exploration. Committed to excellence, it continues to shape young minds, enabling them to excel in their careers and contribute to the mathematical community.

About the Conference

The International Conference on Mathematics Beyond Borders: Theory, Applications, Skills, and Future Perspectives aims to bring together researchers, academicians, and professionals from diverse fields to explore the vast potential of mathematics. This conference provides a platform to discuss the latest advancements in mathematical theories and their real-world applications. Experts will share insights into how mathematical skills contribute to problem-solving across various disciplines. The event will feature keynote address, technical sessions, and paper presentations covering a wide range of mathematical domains. Participants will have opportunities to collaborate, exchange ideas, and foster interdisciplinary research. Special emphasis will be given to emerging trends in applied mathematics and its role in shaping future innovations. The conference also highlights the significance of mathematical education in developing analytical and critical thinking skills. This conference is an excellent opportunity for networking, learning, and contributing to the advancement of mathematics beyond borders.

Registration

Registration can be done through the following Link

https://forms.gle/T36KvEhyX5CcLrTLA

Spot registration are also allowed on prior requisition

Registration fee

Students: Rs. 500
Scholars: Rs. 750
Faculty Members: Rs.750

Keynote Address

Dr. R. Parvathy M.Sc., M.Phil., Ph.D.,
Associate Professor (Rtd),
Department of Mathematics,
Holy Cross College (Autonomous),
Nagercoil.

Session - I

Dr. K. Selva Kumar M.Sc., B.Ed., NET, M.Phil., Ph.D.,
Professor,
Department of Mathematics,
Manonmaniam Sundaranar University,
Tirunelveli.

Topic : Topological Indices of Graph
and its Applications

Session - II

Dr. J. Arul Jesti M.Sc., B.Ed., M.Phil., Ph.D.,
Assistant Professor,
Department of Mathematics,
St. Mary's College (Autonomous),
Thoothukudi.

Topic : Number Theory in the Digital
Age: Present Growth and Future Prospects

Session - III

Dr. Antony Kishore Peter M.Sc., M. Phil., Ph.D.,
Lecturer,
Military Technology College,
Muscat, Sultanate of Oman.

Topic : Graph Theory in Robotics and
Artificial Intelligence

Session - IV

Dr. A. Rizwana M.Sc., M. Phil., Ph.D.,
Assistant Professor,
Department of Mathematics,
Virudhunagar Hindu Nadars'
Senthikumara Nadar College(Autonomous),
Virudhunagar.

Topic : Enhancing Mathematical Research with
Technological Advancements

Guidelines for Paper Presentation

The organizing committee of this conference welcomes unpublished original research articles from faculty members, research scholars, and students. Submissions should be formatted in Times New Roman font (Font size: 12, single line spacing). The full paper should not exceed four pages, and the plagiarism level must be below 20%. All accepted papers will be published in the conference proceedings with an ISBN number. The abstract and full-length paper should be submitted via email to

mathsdocument@holycrossngl.edu.in

Important Dates

Abstract Submission : 15-03-2025
Date of Acceptance : 16-03-2025
Full paper Submission: 18-03-2025

Contact Details

Dr. T. Sheeba Helen - 9486374565
Dr. V. Sujin Flower – 9790538138

Patron

Dr. Sr. M. Mary Gilda,
Secretary,
Holy Cross College (Autonomous),
Nagercoil.

Chair Person

Dr. Sr. S. Sahayaselvi,
Principal,
Holy Cross College (Autonomous),
Nagercoil.

Organising Secretaries

Dr. T. Sheeba Helen - Head & Associate Professor
of Mathematics
Dr. V. Sujin Flower - Assistant Professor of Mathematics

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