

## CALL FOR PAPERS

The authors are requested to submit their original research papers through online by registering themselves in the link which is in the QR Code. Papers will be accepted for presentation and publication only after passing scrutiny and peer review process. Publications will be carried out as per rules and regulations of the Journals. We solicit high quality original research papers in any aspect of conceptual techniques in Pure and Applied Mathematics. Relevant topics include but are not limited to:

- Analysis
- Applied Mathematics
- Control Theory
- Differential Equations
- Graph Theory
- Number Theory
- Topology

### Mode of Conference:

The conference will be conducted both ONLINE and OFFLINE modes according to the convenience of the participants.

### Eligibility

Any inquisitive post graduate student, research scholars, faculty members or academicians from Indian or foreign institutions can submit their papers comply with the format mentioned below.

### Paper Submission Guidelines:

- The abstract and papers must be sent to [icomacna2024@gmail.com](mailto:icomacna2024@gmail.com)
- Abstract not exceeding 500 words must include the details of Title, Author(s) Name, Institution with address contact details (email id and mobile number) and a maximum of 5 keywords.
- All the papers should be submitted in Word document/LaTex format.
- All the papers must be original and unpublished works.
- In case of multiple authors, please underline the name of presenting author.

Presentations will be evaluated and the best presenter will be honored. Participation certificate will be provided to all the participants

### Publications:

The papers presented in the conference will be published in the conference proceedings with ISBN if the presenter opts for it. Selected papers presented in the conference will be thoroughly refereed as per the norms of journals and published in UGC care/Scopus/Web of Science indexed journals: **Palestine Journal of Mathematics (Scopus)**, **Journal of Interdisciplinary Mathematics (Scopus)**, **Poincare Journal of Analysis and Applications (Scopus)** and **Indian Journal of Science and Technology (Web of Science)**. The process to be followed for each category of publication will be informed later.

### Important Dates

Abstract Submission deadline <b>08.03.2024</b>	Acceptance for presentation <b>10.03.2024</b>
Registration deadline <b>12.03.2024</b>	Full Paper submission <b>18.03.2024</b>

Notification of Acceptance will be declared after completion of peer reviews.

### Scan & Register



FEES DETAILS	For Indian Delegates	For Foreign Delegates
Participation	Rs. 500	10 USD
Presentation	Rs. 750	
Paper presentation and publication in conference proceeding	Rs. 1000	15 USD

### Bank details

Account Holder : **Kaleeswari K**  
Account Number : **194100050305234**  
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MICR Number : **626060003**  
Branch Name : **A.J. College, Sivakasi**  
G Pay Number : **8122093899**

### Accommodation

Accommodation will be arranged at nominal cost in the college hostels for participants.



For further clarification contact  
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Department of Mathematics  
ANJAC, RIT & SFRC  
jointly organize

## INTERNATIONAL CONFERENCE ON

## MATHEMATICAL CHALLENGES & NOVEL APPLICATIONS

## ICOMACNA -2024



Mode  
**HYBRID MODE**  
(Offline / Online)



Date  
**MARCH**  
**21<sup>st</sup> & 22<sup>nd</sup>** **2024**

Venue

**Ayya Nadar Janaki Ammal College**  
**March 21, 2024**

**The Standard Fireworks Rajaratnam**  
**College for Women**  
**March 22, 2024**





# INTERNATIONAL CONFERENCE ON MATHEMATICAL CHALLENGES AND NOVEL APPLICATIONS ICOMACNA -2024

This conference is aiming to bring together leading Academicians, Researchers, Scholars, and Students to exchange and share their knowledge and current research aspects of Pure and Applied Mathematics concepts. Renowned persons are invited as Keynote speakers to contribute their thoughts and vision. We hope that the outcome of ICOMACNA -2024 will throw light on the scope for further research in Pure and Applied Mathematics.

## PROBABLE SPEAKERS

- 1 Prof. Sanjeewa Perera,**  
University Of Colombo, Sri Lanka.
- 2 Prof. S. Jafari,**  
College of Vestsjaelland South, Mathematical and Physical Science Foundation, 4200 Slagelse, Denmark.
- 3 Dr. Ikha Magdalena**  
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- 6 Prof. R. Srikanth**  
SASTRA Deemed-to-be-University, Thanjavur.
- 7 Dr.S.Lalithambigai**  
Madurai Kamaraj University, Madurai.



**AYYA NADAR  
JANAKI AMMAL COLLEGE**  
(Autonomous), Sivakasi

## ABOUT THE COLLEGE

Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi, established in 1963, in the industrial town of Sivakasi, popularly known as "Little Japan" in Tamil Nadu, is a standing testimony to the wisdom and foresight of late Thiru P. Ayya Nadar, a leading businessman and pioneering industrialist of this corporation. As the institution was established by his munificence, the college was fittingly named after him and his equally generous wife, Thirumathi A. Janaki Ammal. The college has been serving as a beacon light in the backward area of Virudhunagar District, emphasizing teaching, learning and research programmes in different disciplines for the benefit of thousands of rural students who pursue higher education. Today, Ayya Nadar Janaki Ammal College is reckoned as one of the leading educational research institutions in India with diversified courses, excellent infrastructure, competent faculty & very promising students. The College is re-accredited (4th Cycle) with 'A+'Grade (CGPA 3.48 out of 4.0) and recognized by UGC as College of Excellence. Apart from academic activities the college is also serving the society through various service channels and departments.



## ABOUT THE DEPARTMENT

The Department of Mathematics was established in 1963, the year of the inception of the Institution also, offered P.U.C initially. The Department has registered a steady growth with the Institution. The Department is offering B.Sc. Degree course from 1964, M.Sc. Degree course from 1975 and M.Phil. Programme from 1986. The Department has been upgraded as a research centre offering Ph.D. programme since August 1992 and it is enriched with 12 Faculty members among which 9 are doctorate holders.

The thriving areas of research are Graph Theory, Topology, Geometric function Theory, Control Theory and Number Theory. It is noteworthy to mention that the Department has produced more than 2000 graduates, 850 post graduates and 450 M.Phil graduates. It also has produced 26 Ph.D. scholars. At present 6 scholars are pursuing their Ph.D. programme. To Add feather to its cap, various funded programme were received by the Department.



**RAMCO INSTITUTE OF  
TECHNOLOGY**  
Rajapalayam

## ABOUT THE COLLEGE

Ramco Institute of Technology (RIT) was founded with a vision to impart high quality engineering education at an affordable cost by our founder Chairman Shri P.R. Ramasubrahmaneya Rajha. Under the able guidance of our present Chairman, Shri P.R.Venketrama Raja, distinguished professionals, academicians and industrial experts, we continually aim to revolutionize the learning environment by creating an enviable knowledge pool of engineering and technology graduates who are attuned to the current industry requirements. The academic excellence of RIT is recognized through NAAC accreditation and ISO 9001:2015 certification. Four Programmes (CSE, EEE, ECE, MECH) of RIT are NBA accredited. RIT is an institute member of CDIO, an international forum as well. According to the R World Institutional Ranking, RIT received an A grade with Gold band for providing outcome-based education and a Diamond Band for excellence in maintaining the wellbeing of its teachers, staff, and students. RIT is recognised by Academic Insights for its contributions to society and academic fellowship, as evidenced by its ranking of 35 in the India's Top 50 engineering institutions survey. Being part of the Ramco Group, which is well known for its qualitative and innovative brands not only in India but across the world, we are looked upon to set high standards in the education sector. The innovation ecosystem of RIT is strengthened through active functioning of the institutions' innovation council, an initiative of the Ministry of Education, Government of India. Incubation facility at RIT supported by the Ministry of MSME under Innovative scheme helps the innovators to scale-up their innovative ideas into products/services. True to its legacy, RIT has embarked on a mission to empower students with high-quality, accessible yet world-class engineering education and prepare these young minds for lifelong learning by creating and disseminating appropriate knowledge.



## ABOUT THE DEPARTMENT

The department of Mathematics was started in 2013 during the inception of the Institution. Highly skilled, committed, and sincere faculty members in the department impart their knowledge to students through a modern pedagogical approach that includes video lectures from MIT, NPTEL, and other sources. The department faculty members regularly update their knowledge by enrolling in online courses offered by a variety of platforms, including edX, Coursera, NPTEL, etc. Seven faculty members have doctorates in several domains, including Graph Theory, Topology, Optimisation, Differential Equations and

Statistics, while two more are pursuing Ph.D in Algebra. There are three research supervisors in the department. In addition to mathematical software tools to enhance students' understanding of solving mathematical problems connected to engineering through programming, the department maintains a separate library. The mathematics department attracts students with a wide range of interests to gain a solid foundation for courses in engineering and technology and also for their future career.



**THE STANDARD FIREWORKS  
RAJARATNAM COLLEGE FOR WOMEN**  
(Autonomous), Sivakasi

## ABOUT THE COLLEGE

The Standard Fireworks Rajaratnam College for Women was established in 1968, in memory of the late philanthropist Thiru N.R.K.Rajaratnam, whose pioneering spirit in business and industry has earned for himself an indelible niche in the annals of Sivakasi. It started functioning with the noble vision of uplifting the socio-economic status of rural women in and around Sivakasi and equipping them to confront the challenges of everyday life. With the liberal financial support and constant guidance of the Management, the college has emerged as one of the Best Colleges for women's education. The National Accreditation & Assessment Council of Bangalore, crowned SFRC with the Five Star Status in 2002, followed by the renewed award of 'A' Grade in Sep 2008.



On 16th September 2011, the college was bestowed with the unique honour of "College with Potential for Excellence" by UGC. Under UGC PARAMARSH scheme for mentoring NAAC Accreditation Aspirant Institutions, our college has been approved as Mentor Institution in the academic year 2019-2020. In the Fourth Cycle of Accreditation SFRC has again been awarded 'A+' Grade in 2021.

## ABOUT THE DEPARTMENT

The Department of Mathematics has successfully completed the Golden Jubilee celebrations. Teaching of Mathematics started right from the inception of the college at the P.U.C level. The Department of Mathematics offers Under Graduate and Post Graduate Programmes under the Choice Based Credit System with outcome-based education. The Department is upgraded as PG & Research Department from the year 2022 onwards. The Department has 12 Faculty Members among which 8 Ph.D holders, 3 NET and 1 - SET Qualified staff members. They strive hard to maintain a record of good service with the vision of offering quality teaching, inculcating social responsibility and teaching, inculcating social responsibility and

blossoming human excellence. At present, 9 Research scholars are pursuing the Ph.D programme. The unique feature of the Department is that it has been co-ordinating the Virudhunagar District Cluster Colleges Programme in Mathematics for the past 36 years. The Department has registered steady growth, right from its inception in 1968, strictly adhering to the visions of the College. It caters to the overall development of the students through various Competitions, Seminars/ Workshops/ Conferences.