



JAYARAJ ANNAPACKIAM COLLEGE FOR WOMEN(AUTONOMOUS)

PERIYAKULAM, THENI DT.

Accredited with 'A + ' Grade in (Cycle 4) by NAAC

PG AND RESEARCH DEPARTMENT OF MATHEMATICS

Association Activities 2025 - 2026

**Staff In- Charge : Dr .D. Selvi
Mrs. K. Kulanthai mala**

**Secretary : Selvi. Shakthi Sri,
III B.Sc. Mathematics**

**Joint Secretary : Selvi. M.Prithika Shree,
II B.Sc. Mathematics**

Report on “Pi Approximation Day Celebration”

In connection with “Pi Approximation Day” the PG and Research Department of Mathematics planted saplings on 22.07.2025 in front of the department and motivated the students to develop ecofriendly lifestyles. The symbol of pi is $\pi = \frac{22}{7}$, approximately equal to 3.14159. It is the ratio of the circumference of a circle to its diameter, which is an irrational number. It is used in various fields involving curves, circles, or waves, such as GPS, MRI, and vehicle designing.



Report on “Freshers Day Celebration”

The PG and Research Department of Mathematics organized a vibrant Freshers Day celebration to warmly welcome I UG and I PG students on 28.07.2025. The program began with the prayer song followed by Scripture reading. The Mathematics Association Secretary Selvi S. Shakthi Sri of III B.SC Mathematics, welcomed the

gathering. The cultural performances were presented by the senior students which included traditional dance, folk dance, speech and drama.

Dr. P. K. Santhi, Head and Associate Professor of Mathematics delivered an inspiring address and encouraged the students to shine in life. Each event reflected joy, unity and encouragement, with students from various years showcasing their talents. As a token of love, pens were distributed to the freshers. The celebration concluded with a heartfelt vote of thanks delivered by the Joint Secretary, Selvi. M. Prithika Shree of II B. Sc Mathematics.





Report on “Pi Day - 2026”

On the occasion of Pi Day, Mathematics Association organized a special talk on 14th March, 2026 at 11:30 a.m. in Room No. 21. The event aimed to enhance students understanding of mathematical concepts and their applications in modern fields such as healthcare and computational technologies. The session was delivered by Selvi T. Mariyan Jones, a Research Scholar of PG and Research Department of Mathematics, who presented a talk titled *“Evolution of Neutrosophic Fuzzy Logic – Driven Tools for Disease Detection and Medical Decision Support in Healthcare.”* At the beginning of the session, she briefly explained the significance of Pi Day and the importance of the mathematical constant π ($\pi \approx 3.14$), which represents the ratio of a circle’s circumference to its diameter. She highlighted how Pi plays a fundamental role in Mathematics. She explained the modern Mathematical models such as Neutrosophic Fuzzy Logic help researchers to analyse uncertain or incomplete medical data. She described these models are used to improve disease detection and support doctors in making accurate medical decisions. The talk was informative and engaging, giving 79 students an opportunity to understand the Mathematical theories are applied in interdisciplinary areas combining Mathematics, Computer Science, and Healthcare. Overall, the Pi Day special talk was successful and provided valuable insights into the role of Mathematics in research and healthcare applications.



Report of student talk on “Data Encryption through Fuzzy Graphs : A Novel Approach for Safe Data Transfer “

The PG and Research Department of Mathematics organized a student talk on “Data Encryption through Fuzzy Graphs: A Novel Approach for Safe Data Transfer” on 22nd September 2025 in Room No.36 as part of the Mathematics Association activities. The session was delivered by Ms. S. Dharani, II M.Sc. Mathematics, who presented an informative and thought-provoking lecture. She explained the fundamental concepts of encryption and decryption and highlighted how fuzzy graphs can be utilized as a novel approach for ensuring secure data transfer. Her presentation offered valuable insights into the integration of mathematical theories with modern technological applications, particularly in the domain of data security. The session proved to be highly beneficial for the students, broadening their knowledge of how abstract mathematical structures can contribute to solving real-world challenges. Over all, the talk was useful, engaging, and inspiring, encouraging students to apply mathematical concepts in interdisciplinary areas such as computer science and cyber security.





Report on “Dumb Charades”

The PG and Research Department of Mathematics organized a Dumb Charades competition on 10th February 2026 to enhance students’ logical thinking, teamwork and communication skills. The competition witnessed enthusiastic participation from students across various classes. Participants demonstrated creativity and quick reasoning while identifying Mathematical terms and concepts. The event created an engaging and enjoyable learning atmosphere among students. Ten students were actively participated and the following 6 students won prizes.

I Prize

1. R. Nabeela Rukshana - I M.Sc. Mathematics
2. M. Santhiya - I M.Sc. Mathematics

II Prize

1. K. Vajeeha Fathima - II B.Sc. Mathematics
2. N.Kiruthika Devi - II B.Sc. Mathematics

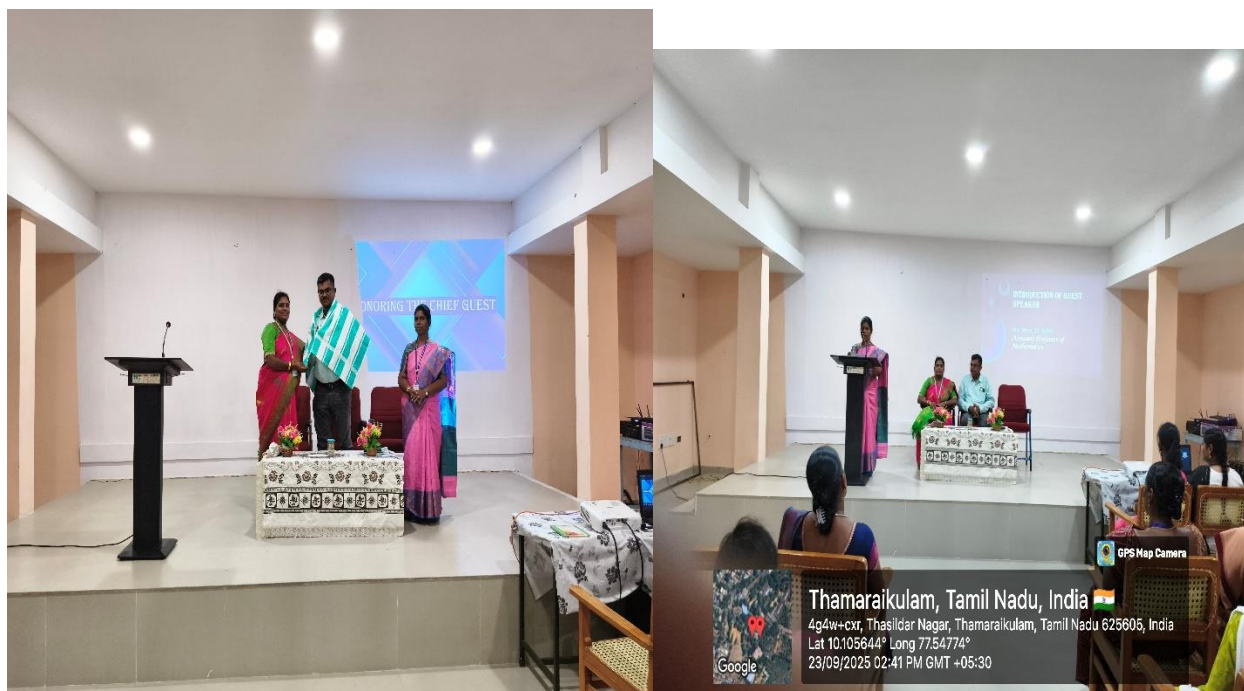
III Prize

1. M. Abarna Lakshmi - II M.Sc. Mathematics
2. M. Roshiniprya - II M.Sc. Mathematics



Guest Lecture: The PG and Research Department of Mathematics organized a guest lecture on “Applications of Differential Equations in Control Theory” on 23 September 2025 as part of the MoU activities.

The session, delivered by Dr. P. Muthukumar from The Gandhigram Rural Institute (Deemed to be University), provided valuable insights into the role of differential equations in modeling and controlling dynamic systems.



JACMATFEST AND Guest Lecture On "Harnessing Mathematics For Evidence-Based Sustainable Development" :

The PG and Research Department of Mathematics organized a guest lecture on "Harnessing Mathematics for Evidence-based Sustainable Development" on 07.01.2026, delivered by Dr. V. Vanitha of Fatima College, Madurai. The session highlighted the role of mathematics in sustainable development and real-world problem solving, benefiting 232 students.



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Report on “ MATHATHON '25 ”

Mathematics Association organized a special Lecture on “ **MATHATHON '25**” with the theme Create-Connect – Conceive on 26th August 2025 at 2:00 p.m. in the Indoor Auditorium. The programme commenced with a prayer, followed by a warm welcome address delivered by Dr. Mrs. P. K. Santhi, Head and Associate Professor of Mathematics. The keynote address was delivered by Mr. S. Kandeegan, B.A., CAIIB, Ex-Serviceman (Indian Navy) and Assistant Manager, Indian Overseas Bank, Thamaraiikulam Branch, Periyakulam. Drawing from his rich experience in the Navy and banking sector, he spoke on the “Way to Success,” emphasizing discipline, perseverance, continuous learning, and positive thinking as keys to achieving goals. His inspiring words motivated the students to channel their talents with commitment. The event concluded with a vote of thanks delivered by Dr. D. Selvi, Assistant Professor of Mathematics.



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Report on “Genius Explore Mathematics (GEM-2025)

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National Mathematics Day Rally”

The PG & Research Department of Mathematics of Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, organized the **Genius Explore Mathematics (GEM-2025)** programme along with the **National Mathematics Day Rally** on **9th December 2025 at 10:00 a.m.** The event was conducted in honour of **Srinivasa Ramanujan**, the great Indian mathematical genius, with the aim of promoting Mathematical awareness and strengthening students’ analytical thinking. The programme began with a prayer song, followed by the Rally Flag Off by **Rev. Sr. Dr. M. Rajeenal**, Mother superior, JAC, and **Mr. A. Mohan, M.A., M.Ed., M.Phil., Assistant Project Officer**, Samagra Shiksha Abhiyan (SSA), CEO Office, Theni. Their presence added grace and motivation to the event. **Dr. P. K. Santhi**, Head & Associate Professor of Mathematics, JAC, delivered the Welcome Address, highlighting the significance of National Mathematics Day and the everlasting contributions of Srinivasa Ramanujan to the field of Mathematics.

The Felicitation Address was delivered by **Rev. Sr. Dr. R. Shantha Mary Joshitta**, Secretary, JAC, and **Rev. Sr. Dr. S. Iruthaya Kalai Selvam**, Principal, JAC. They appreciated the efforts of the Mathematics Department and encouraged students to develop logical thinking, problem-solving abilities, and research aptitude through mathematics. They also commended the department’s initiative in organizing programmes that inspire students and strengthen academic excellence. The rally proceeded from the College Campus to T. Kallipatti and back, with students carrying placards, charts, and slogans emphasizing the theme “**Awareness on the Importance of Mathematics in Daily Life.**” In connection with **GEM-2025**, a competition was conducted for the students of Government High School, T. Kallipatti. The students participated enthusiastically, and the winners were honoured with prizes to encourage young minds to develop interest and excellence in Mathematics. The programme concluded with the Vote of Thanks proposed by **Dr. D. Selvi**, Assistant Professor of Mathematics, JAC, who expressed heartfelt gratitude to the Management, Chief Guests, Faculty Members, and all students for their active participation.





Report on “Teacher’s Day Celebration”

The PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), organized a vibrant Teacher’s Day Celebration on 4th September 2025 at 1:30 p.m. in Room No. 36. The program was held on behalf of the students to honour and appreciate their beloved teachers for their unwavering guidance, patience, and dedication. The event began with a warm welcome address. The students showcased their talents through a variety of cultural and entertaining events enthusiastically. The program included songs, dances, skits, and fun games dedicated to their teachers, filling the atmosphere with joy and gratitude. The active participation of students made the celebration lively, memorable, and truly special. To mark the significance of the occasion, a toast was proposed by Dr. P. K. Santhi, Head and Associate Professor of Mathematics, highlighting the invaluable role of teachers in shaping the lives and careers of students. Adding sweetness to the day, a joyful cake cutting ceremony was organized, symbolizing unity, respect, and celebration of the bond between teachers and students.





REPORT ON NET/SET Coaching

The PG and Research Department of Mathematics organized a UGC NET/SET coaching session for the benefit of postgraduate Mathematics students preparing for competitive examinations. The coaching class was scheduled on 25th March 2026. The session aimed to support students in strengthening their preparation for the UGC NET/SET examinations. Mrs.S.P.Chitra, M.Sc., M.Phil., SET, Guest Lecture of Mathematics, Nilokottai Government Arts College for Women and Part time Research Scholar of PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women, served as a resource person. 26 PG Mathematics students benefited by this program.