

**DEPARTMENT OF MATHEMATICS**  
**NEWS LETTER**  
**2024-2025**

**ODD SEMESTER**  
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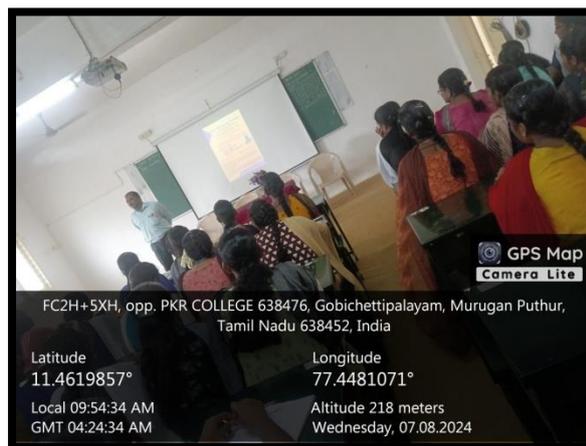
The Department of Mathematics organized the  $\pi$  - Day Celebration on 22.07.2024. Mrs. R. Jayalakshmi, the Head of the Department, highlighted the significance of Pi Day and the importance of  $\pi$  (pi) in mathematics, emphasizing its crucial role in various mathematical and scientific applications. She delivered a detailed presentation, showcasing the history, derivation, and applications of  $\pi$  across different fields. Her presentation included intriguing facts and historical anecdotes, making it both educational and entertaining. Around 40 students and 10 Faculty members were benefited through this session.



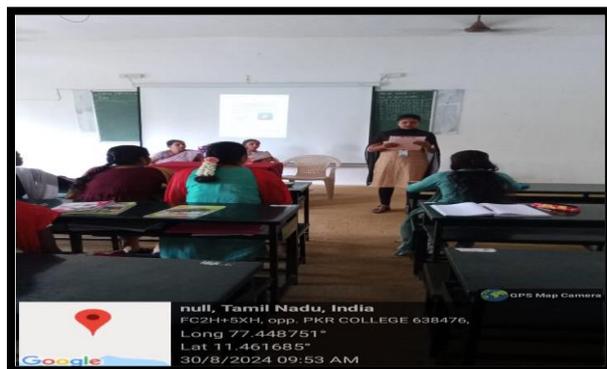
The Science Department of P.K.R. Arts College for Women, Gobichettipalayam organized the Science Association Inauguration on 25<sup>th</sup> July 2024 at MBA Seminar Hall. Dr.K.Radhakrishnan M.Sc., M.Phil., Ph.D Principal, Government Arts and Science College, Sathyamangalam, Erode. He emphasized the critical role of scientific associations in fostering innovation, promoting collaborative research, and nurturing the next generation of scientists. He provided detailed information on the opportunities available for students in the fields of Mathematics, Physics, and Computer Science. His speech highlighted the significance of preparing for the CSIR-NET exam, which opens doors to numerous government job opportunities and research positions. Around 164 students and 35 Faculty members were benefited through this session.



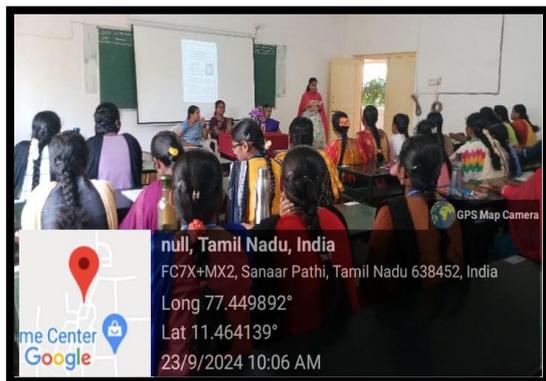
The Department of Mathematics organized the Student Development Program on Exploring the Role of Mathematics in Advancing Technological Innovations on 07<sup>th</sup> August 2024. Mr. S. Alagupandi, Founder and CEO, Aakkam Seventh Mind Academy, Coimbatore was the Chief Guest. He delivered an enlightening keynote address, discussing various aspects of how mathematical concepts and techniques are foundational to technological advancements. He provided real-world examples and case studies, demonstrating the practical applications of mathematics in fields such as data science, engineering, artificial intelligence, and more. His speech inspired students to further explore the potential of mathematics in their future careers. Around 40 students were benefited through this session.



The Department of Mathematics organized a Alumna insights: Mastering Replacement Models for Strategic Decision Making on 30<sup>th</sup> August 2024. Mrs.P.S.Kayalvizhi , Assistant Professor , Department of Mathematics, Vellalar College for Women (Autonomous) Erode -12, was the Resource Person. Mrs. P.S. Kayalvizhi's lecture on replacement models provided students with a thorough understanding of their importance in strategic decision-making and resource optimization across various industries. Through real-world examples and interactive case studies, she effectively connected theoretical concepts with practical applications, enhancing students' problem-solving skills. The detailed exploration of mathematical techniques and encouragement for further research left a lasting impact, inspiring students to delve deeper into this critical area of mathematics and its applications in technology and business. Around 11 students were benefited through this session.



The Department of Mathematics organized a Mathematical Foundations for AI and Machine Learning on 23<sup>rd</sup> September 2024. Dr. Anitha Sakthivel, Assistant Professor, Department of Mathematics, PSG Institute of Technology and Applied Research, Neelambur, Coimbatore – 62. She played a crucial role in bridging the gap between mathematics and its application in AI and machine learning. Participants actively engaged in discussions, problem-solving activities, and real-world applications of the mathematical concepts presented. Feedback from students indicated an increased confidence in their ability to tackle machine learning challenges through a solid understanding of the underlying mathematics. This session marked a significant step in equipping students with the necessary skills to excel in the rapidly evolving field of AI and ML. Around 45 students and 11 Faculty members were benefited through this session.



A Hands-on Training on Graph with GRIN Software was organized on 26<sup>th</sup> September 2024. The chief guest of the day was Dr. G. Priyadharsini, Assistant Professor, Department of Mathematics, Kongu Arts and Science College (Autonomous), Erode. She covered important graph theory terminologies, including Hamiltonian graphs, Eulerian graphs, and the Peterson graph. She ensured the students were engaged, allowing them to practice alongside her, thereby reinforcing the concepts. Her clear explanations helped the participants understand the practical applications of the software, from its fundamental functions to advanced features. The event concluded with a positive feedback from the students, who found the training both insightful and engaging. Around 38 students and 10 Faculty members were benefited through this session.



The Department of Mathematics organized a programme on "Mathematical Statistics and Its Applications" led by Dr. A.K. Abdul Hakkem, Associate Professor, Department of Mathematics, Sri Ramakrishna Mission Vidhyalaya College of Arts & Science, Coimbatore. Dr. Hakkem commenced the session with a comprehensive introduction to mathematical statistics, laying out the foundational concepts of probability theory, random variables, and distributions. He illustrated the importance of statistics in analyzing data, drawing conclusions, and making informed decisions. The programme emphasized various probability distributions, including binomial, Poisson, and normal distributions, which are essential tools in statistical modeling. He demonstrated the practical use of these distributions in fields such as finance, biology, and social sciences. He elaborated on methods to estimate population parameters and test hypotheses using sample data, providing real-world examples of their significance in research and industrial applications. Around 44 students and 10 Faculty members were benefited through this session.



**EVEN SEMESTER**

**2024-2025**

## DEPARTMENT OF MATHEMATICS NEWSLETTER EVEN SEMESTER (2024-2025)

A Two-Day MTTs Overture Programme was successfully organized by the Department of Mathematics, P.K.R. Arts College for Women, Gobichettipalayam, on 16<sup>th</sup>–17<sup>th</sup> December 2024. The programme was conducted by two esteemed MTTs faculty members: Dr. A. Chandrashekar and Mr. D. Chellapillai, both from the Central University of Tamil Nadu, Thiruvavur. The first day's sessions focused on Algebra and Real Analysis. Students were introduced to new methods of thinking and solving mathematical problems. On the second day, four 90-minute sessions were conducted, covering topics in Analysis, Algebra, and engaging group discussions. Around 43 student participants and 11 teacher participants representing 6 institutions.



The Department of Mathematics organized a Ramanujan Day celebration on 22nd December, coincided with a Sunday this year, so the celebrations were held on 23<sup>rd</sup> December 2024 to honor the legacy of the renowned mathematician Srinivasa Ramanujan and to inspire a deeper appreciation for mathematics among students and faculty. A series of activities were conducted, including a Maths Quiz, Maths Charades and Paper Presentations. Prizes were awarded to the winners of each event. Around 38 Students and 12 Faculty members benefitted through this program.



The Department of Mathematics successfully organized a Student Development Programme on "Unlocking Career Opportunities for Mathematics Students" on 4<sup>th</sup> February 2025. Mr. S. Alagupandi, Founder and CEO, Aakkam Seventh Mind Academy, Coimbatore was the Chief Guest. He delivered an insightful session on the various career opportunities available for mathematics students. He emphasized the importance of mathematical thinking in diverse fields such as data science, artificial intelligence, finance, research, and entrepreneurship. Around 40 Students were benefitted through this program.



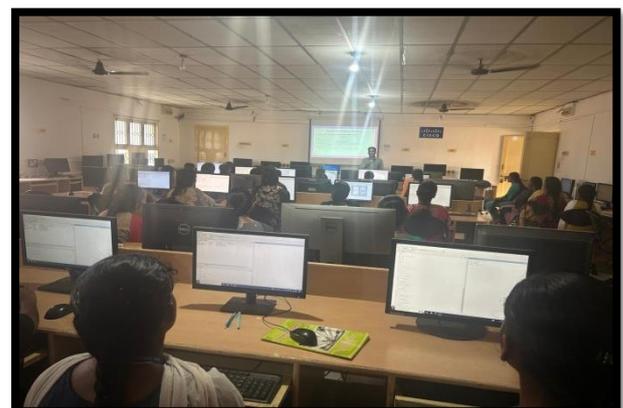
The Department of Mathematics successfully organized a program on “Wonders of Fluid Dynamics” on 12<sup>th</sup> February 2025. Dr. S. Aiswarya, Assistant Professor at PSGR Krishnammal College for Women, Coimbatore, as the resource person. She presented a detailed overview of fluid dynamics, covering various aspects such as the governing equations, the behavior of fluids under different conditions, and its applications in diverse fields like engineering, meteorology, and environmental science. Around 20 Students and 10 Faculty Members were benefitted through this program.



The Department of Mathematics successfully organized a Workshop on Embedded systems Design for IOT Applications on 19<sup>th</sup> February 2025. The programme led by Ms.Kanishadevi of II M.sc Mathematics and Ms.Ranjani of III B.sc Mathematics. The workshop focused on practical skills, including programming, hardware interfacing, and implementing object detection techniques, to equip attendees with the knowledge required to develop innovative IoT solutions. Participants engaged in hands-on sessions that involved programming microcontrollers, interfacing sensors, and understanding communication protocols essential for IoT devices. Around 44 Students and 9 Faculty Members were benefitted through this program.



The Department of Mathematics organized a programme on Workshop on MATLAB led by Dr. P. Ragupathi, Assistant Professor, Department of Mathematics, Sri Ramakrishna Mission Vidhyalaya College of Arts and Science, Coimbatore on 20 February 2025. He proceeded with the session, where he explained the fundamentals of MATLAB, including its interface, syntax, and basic functions. The **workshop** was structured to allow hands-on practice, giving participants a chance to work with MATLAB and apply what they had learned to real-world problems. Around 42 students and 10 Faculty members were benefitted through this program.



The Science Department of P.K.R. Arts College for Women, Gobichettipalayam organized the National Science Day- Workshop on Scientific Exploration through Live Experiments on 27<sup>th</sup> February 2025 at MBA Seminar Hall. Mr. V. Arivarasan, Program Director, Parikshan Charitable Trust, Vigyan Rath was the Resource Person. The session included a series of live experiments across multiple disciplines, where participants were encouraged to engage directly with the scientific process. Experiments were selected to demonstrate key concepts in physics, mathematics, and computer science. Around 350 students and 35 Faculty members were benefitted through this program.



A Pi day celebration organized by Department of Mathematics on 13<sup>th</sup> March 2025. The chief guest of the day was Dr. M. Indira, Associate Professor in the Department of Computer Science at PKR Arts College for Women (Autonomous), Gobichettipalayam. The objective of celebrating Pi Day is to promote awareness and appreciation of Mathematics, with a special focus on the significance of the mathematical constant pi ( $\pi$ ). The event aimed to commemorate the birth anniversary of the renowned Indian physicist Larry Shaw and to recognize contributions to mathematics in education and research. Around 20 Students and 12 Faculty members were benefitted through this program.



The Science Association Valediction was successfully organized by the Departments of Mathematics, Computer Science, and Physics at P.K.R. Arts College for Women, Gobichettipalayam. The chief guest for the function was Ms. N. Zabira Jaban, Innovation Ambassador – IIC and Assistant Professor, Department of Computer Applications, Nandha Engineering College (Autonomous), Erode. She delivered an inspiring address focusing on the importance of innovation, digital technology, and the need for interdisciplinary approaches in scientific advancement. A prize distribution ceremony was also held to honor the students who actively participated and won in various competitions and events. 350 Students and 35 Faculty members were benefitted through this program.

