

DEPARTMENT OF MATHEMATICS

ANNUAL REPORT 2024-25

We, The Department of Mathematics hereby present the annual report of our activities for the academic year 2024-25.

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DEEKSHARAMBH 2024

The Departments of Chemistry, Computer Science, Mathematics and Physics jointly organized the orientation programme 'Deeksharambh' for first year undergraduate and postgraduate students in association with Dean Academics and Dean Training & Development on 19 July 2024. There were mainly two sessions: one internal and the other external. The internal sessions were led by our Anti-ragging cell, NCC, NSS, Dean-Student Affairs and office. The internal orientation session was followed by the interaction- centered orientation session led by Mr. Shaji George, ASAP Skill Development Executive.



INAUGURATION OF MATHS CLUB AND FEMI

Maths Club and FEMI programmes for the year 2024-25 was inaugurated by Dr. Anu V. In connection with this, there was an invited talk by Dr. Anu. V entitled '**An invitation to Graph Theory**'.



BRIDGE COURSE

A bridge course for the first year students of both UG and PG was offered by the Department of Mathematics during the academic year 24-25. For PG students, the bridge course in algebra was offered during the first week of their course itself from 08/07/2024 to 12/07/2024. It was handled by Dr. Savitha K.S, the faculty in charge of the courses. The topics covered included sets, Binary operations, Groups, Ring, Field, vector space over a field and Isomorphism. For the UG students, the course was led by Ms Disna Mary Joseph, the faculty in charge of first year UG classes. Based on the entry level test conducted, the syllabus was set on the topics Sets and Functions, Matrices, Differentiation and Integration. All students attended the classes and these classes turned out to be incredibly helpful for the students.

FEMI

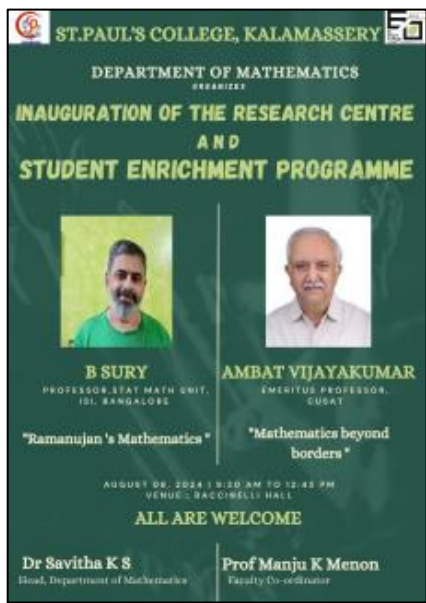
During this academic year, under **FEMI**, the department organised five programmes on various topics, which enhanced students' interest in Mathematics. These activities also improved their various skills such as organization skills, critical thinking skills, communication skills and presentation skills.





INAUGURATION OF RESEARCH CENTRE & STUDENT ENRICHMENT PROGRAMME

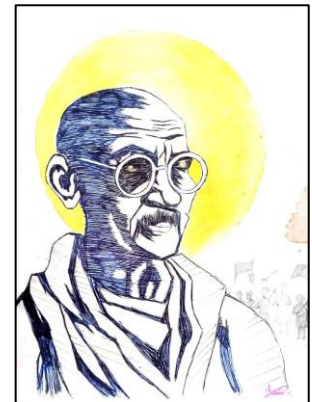
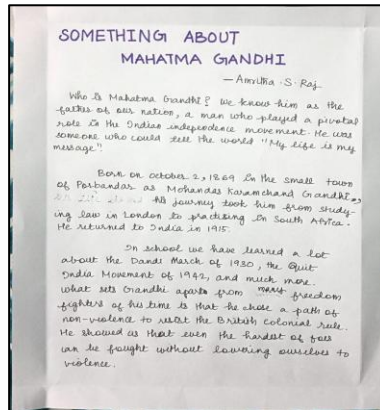
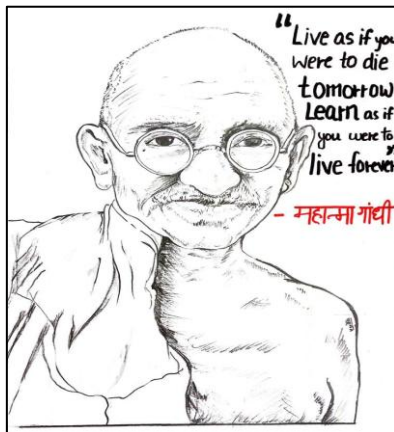
Inauguration of the research centre and Student enrichment programme was organized by the Department of Mathematics on 8th August 2024. The research centre was inaugurated by Prof. B. Sury, ISI, Bangalore. The inaugural ceremony was followed by the student enrichment programme which comprised two sessions. First session was on “Ramanujan's Mathematics” by Prof. B. Sury and the second was by Prof. Ambat Vijayakumar, Emeritus Professor, CUSAT. The title of his talk was 'Mathematics beyond borders', Google algorithms and in the technology around us.





GANDHI JAYANTHI

Students paid tribute to our Father of Nation through drawings, cleaning premises and writing short notes.



“MIND SPARK”-THE PG INTERNSHIP PROGRAMME

The internship named “MIND SPARK” aimed to provide hands-on experience in classroom teaching and management of children from primary classes up to high school students. Through this programme, the interns had the privilege of working with diverse students across various grade levels and collaborating with experienced educators. This enriching experience significantly enhanced their teaching skills, providing invaluable insights into effective classroom management. Through this internship, they refined their practical skills, built confidence, and forged meaningful connections with students and colleagues. This was conducted from 23/09/2024 to 07/10/2024 at the St. Paul’s International School, Kalamassery.



MTTS-OVERTURE PROGRAMME

The Department of Mathematics, St. Paul's College Kalamassery organized a two-day MTTS overture Program for the mathematics undergraduate students in connection with the diamond jubilee celebrations of the college. Dr. Dharmatty Sheetal, Associate Professor, IISER, Thiruvananthapuram, and Dr. Aarusha. C, Post Doctoral Fellow, IIT Bombay led the classes, and about 60 undergraduate students from all over India participated in the training program.



KERALA PIRAVI

The Department of Mathematics, St. Paul's College Kalamassery celebrated Kerala Piravi on November 1, 2024. The main objective of the programme was to honour Kerala's unity, heritage and cultural legacy. The celebration consisted of cultural performances, traditional games and also a pledge enhancing the significance of the mother tongue: Malayalam.



NATIONAL MATHEMATICS DAY

National Mathematics day celebration of the department for the academic year 2024-25 was initiated by the Maths club. As part of the celebration, several interdepartmental competitions were arranged and about 86 students participated in the same. Math Relay, Treasure Hunt, Speed cubing and Memory test were among the competitions and winners were awarded with cash prizes. Students actively participated and the programme turned out to be a success.



A SESSION ON WOMEN ENTREPRENEURS: CHALLENGES, OPPORTUNITIES AND PATH TO SUCCESS

In association with IEDC, Women Cell and Kerala State Women's Development Corporation Ltd., the department organized a session on the opportunities and challenges of a woman entrepreneur on 04.02.2025. The main objective of the programme was to develop among students an interest in entrepreneurship and innovation. The session was led by a leading entrepreneur in Cochin Ms. Laila Sudeesh, Managing Partner, CARE4U facility management company.

St. Paul's college, Kalamassery
 Department of Mathematics
 In association with
 IEDC, Women Cell and Kerala State
 Women's Development Corporation Ltd.
 Organizes

Women Entrepreneurs :
 Challenges, opportunities and path to success

Our Speaker



Laila Sudeesh
 Managing Partner
 CARE4U Facility
 management company

04 February
 2025

12.30 - 01.30 PM
 Baccinelli Hall

Faculty Coordinator :
 Dr. Savitha K. S
 (Associate Professor and HoD)

Student Coordinators:

Irfana M. I
 (2nd year Msc Mathematics)

Libna Elizabeth
 (1st year Msc Mathematics)



ELEVATE YOUR ACADEMIC WRITING: STRATEGIES FOR SUCCESS

The department organized this session for the research scholars of the college. It consisted of two sessions both of which are very important as far as research scholars are concerned. First session was on academic writing handled by Dr Binu P.C, UGC librarian of St.Paul's College, Kalamassery and the other was on Intellectual Property Rights(IPR), handled by Dr Justine George, Assistant Professor , Department of Economics. There were about 20 participants from various departments including 2 final year students from Aquinas College, Cochin. Participants gave good feedback on both the sessions. They found it useful

preparation of their manuscripts, creating original works by providing legal protection and potential financial rewards for their intellectual pursuits.

ST. PAUL'S COLLEGE, KALAMASSERY
Postgraduate and Research Department of
Mathematics

Elevate Your Academic Writing
Strategies for Success

Session 1
Academic Writing
Dr. Binu P C
UGC LIBRARIAN
ST PAUL'S COLLEGE

Session 2
IPR
Dr. Justine George
ASST. PROFESSOR,
DEPARTMENT OF ECONOMICS
ST PAUL'S COLLEGE

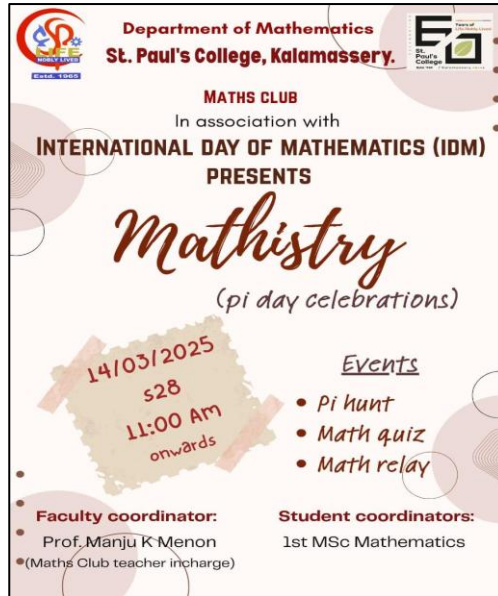
29 January 2025 10 am College Library

Faculty Coordinator: Dr. Savitha K. S., Associate Professor & HOD
Student Coordinator- Ms. Rachel Paul, Research Scholar



INTERNATIONAL MATHEMATICS DAY AND PI DAY CELEBRATIONS

Maths Club celebrated International Mathematics Day and the Pi day for the year 2024-25 in association with International Day of Mathematics [A project led by International Mathematical Union] . In connection with this, maths club arranged a session on the amazing mathematical constant “PI” and also organized various interactive games for the students.



PTA MEETINGS

As always, the department conducted PTA meetings for the various classes during this academic year too. The parents and teachers got a chance for personal interaction and to address the

problems of each student individually. Academically excelled students were felicitated in the meetings as a best practice of the department.

