



Annual Report

2023-24

Department of Physics

St. Paul's College, Kalamassery



Table of Contents

Sl No	Title of the Programme	Page No
1	Indian Air Force- An overview of Life and career in IAF	1-2
2	Nature Walk	2
3	Nobel Lecture	3
4	Fizika' 23	4-5
5	Meet the Scientist	5-6
6	Kaleidoscope 2.0	6-8
7	One day workshop on Python programming	8-9
8	A talk on 'Women and Politics- with special reference to reservation in Legislature'	10



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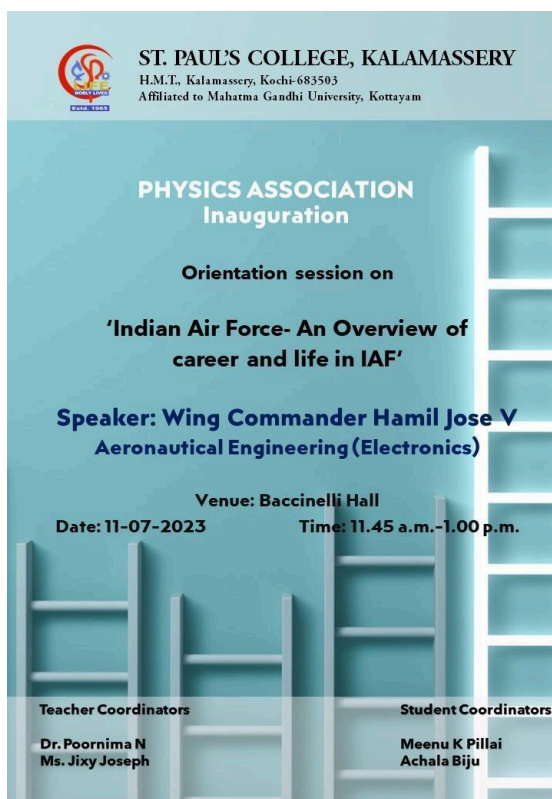
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1. Indian Air Force- An overview of career and life in IAF



The Department of Physics organized an orientation session on 'Indian Air Force- An overview of career and life in IAF' as part of the inauguration of the physics association on July 17, 2023. The session started at 11.45 am with a welcome prayer by the student coordinator Achala Biju. Teacher coordinator Dr Poornima N welcomed the session. Wing commander Hamil Jose V was the speaker of the session. About 81 students and 6 teachers participated in the program. The session covered the speaker's journey from a schoolboy to a commissioned officer in IAF, different sectors, and life and career opportunities in IAF. Career opportunities in IAF after graduation were discussed later in the interaction session. The vote of thanks was given by Mrs Jixy Joseph, the teacher coordinator. The program ended at 1 pm. The program was very



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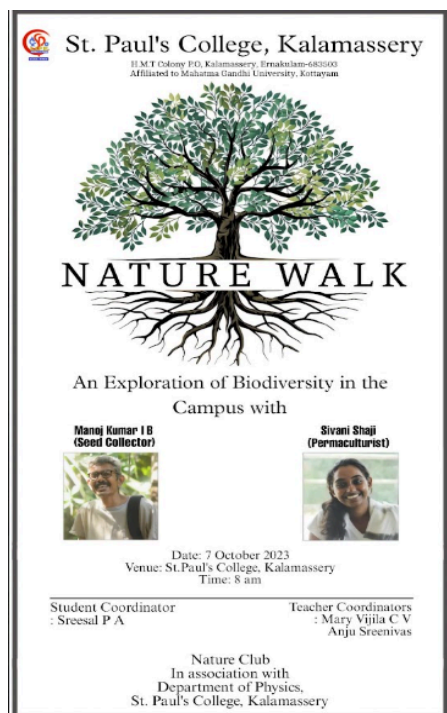
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successful in providing an overview of career and life in IAF. It was a motivational session to help students pursue their goals for Nation building.

2. Nature Walk



The Department of Physics and Nature Club jointly organized a Nature walk programme for nature club students and nature club members of the college on 7th October 2023. Nature walk started after a short meeting held at the college portico at 8.30 am. Students, faculty and resource persons, together in the campus observing nature. Students planted about 30 host plant saplings donated by the resource person Shri. Manoj Kumar in the butterfly garden.





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3. Nobel Lecture 2023



The Department of Physics organized a session on '**Nobel Prize in Physics 2023**' on 10th of October 2023. The session commenced at 2 pm with a welcoming prayer by the student coordinator, Achala Biju. Dr. Poormina N, the Head of the Department, delivered the welcome speech. The session was conducted by **Dr. Riju C Isaac**, Associate Professor, Department of Physics, CUSAT. The program was attended by 52 participants. The session focused on the 'experimental methods that generate attosecond pulses for the study of electron dynamics in matter' for which the Nobel Prize in Physics was awarded. Dr. Rajeshmon V G, the program coordinator, delivered the vote of thanks, followed by the distribution of certificates to the students who participated in the online training program on 'Overview of Space Science and Technology' conducted by ISRO. The program concluded at 3.30 pm.



382H+XF5, HMT Colony, P.O. Kalamassery, Ernakulam, Kochi, Kerala 683503, India
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Local 02:19:48 PM Altitude 24 meters
GMT 08:49:48 AM Tuesday, 10.10.2023



383H+2MC, South Kalamassery, Kalamassery, Kochi, Kerala 683503, India
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GMT 08:47:48 AM Tuesday, 10.10.2023



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4. FIZIKA '23, James Webb Space Telescope -The dawn of a new era in understanding the universe

**ST. PAUL'S COLLEGE
KALAMASSERY**

**DEPARTMENT OF PHYSICS
PROUDLY PRESENTS**

FIZIKA '23

*"James Webb space Telescope:-
The dawn of a new era in understanding the
Universe!"*

Dr. Joe Jacob
Associate Professor (retired)
Newman College, Thodupuzha
Visiting Associate of IUCAA, Pune

Wednesday
20 December 2023

Time
11:45 am

VENUE : BACCINELLI HALL

FACULTY COORDINATOR :
Dr:Rajeshmon VG

Head of the Department :
Dr. Poornima N

STUDENT COORDINATORS:
Smeethan S Shameem
Elsa Teena PV
Gopika
Gokul K A

The event aimed to enhance the student's understanding of the topic through an informative and interactive session delivered by a resource person. The programme was inaugurated by lighting the lamps. The session started at 11.00 am with a welcome prayer by the first-year students. The head of the department -Dr Poornima N welcomed the session. Dr Joe Jacob was the speaker of the session. The session began with an introduction to JWST, explaining its significance and role in revolutionising our Universe. The resource person effectively discussed various aspects of the telescope, including its design, technology and intended scientific goals. The vote of thanks was given by the student coordinator Elsa Teena PV, The program ended at 1:35 pm.



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5. Meet the Scientist



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Post-Graduate & Research Department of Physics

organizes

MEET THE SCIENTIST



Dr. Febin Kurian

**Asst. Scientist-Superconducting Magnet Division
Brookhaven National Laboratory,
Upton, New York, USA**

Date & Time: 21-02-2024, 12.00 p.m.

Venue: Baccinelli Hall

Teacher coordinator

Dr. Subha P P

Student Coordinators

Fathima K A

Ajan A

The Department of Physics organized a meet the scientist programme for students on 21st February 2024 at 12 p.m. Dr. Rajeshmon V G welcomed the gathering and introduced the speaker to the audience. The resource person Dr. Febin Kurian conveyed his ideas on the topic "Superconducting magnets for Accelerator Physics." It was an awesome session. Sir made all the students aware that Ph.D and other academic positions can be achieved not only by highly



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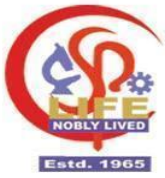
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talented students but also by an average student. At the end of the session the resource person cleared some doubts of the students and the seminar ended by 1:30 pm. Dr. Poornima N, Head, Department of Physics expressed the vote of thanks to Dr. Febin Kurian for spending his precious time for the students and congratulated them for their active participation.



6. Kaleidoscope 2.0

On March 4th 2024, the Physics Club proudly hosted Kaleidoscope 2.0, a vibrant science exhibition, from 9:30 AM to 3:30 PM. Our Principal and Manager inaugurated the event, setting the stage for an enriching experience. Students dazzled with experimental demonstrations, expertly explaining intricate concepts to an eager audience. Dr. Poornima N, our esteemed Head of the Department, provided invaluable guidance throughout, alongside our dedicated department teachers. Under the meticulous coordination of Dr. Rajeshmon V G and Ms. Jixy Joseph, faculty coordinators, the exhibition attracted a diverse audience, including college students, teachers, and enthusiastic class 11 students from neighboring schools. From magnetic marvels to electrifying buzz wire challenges, the exhibition offered interactive sessions that captivated attendees. Demonstrations covered fundamental principles of physics, from light to current and magnetism, offering practical insights into scientific phenomena. Automatic demonstrations showcasing real-world applications further enriched the experience, leaving visitors with a deeper appreciation for the role of science in our daily lives. Attendees



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lauded the event, expressing gratitude for the opportunity to deepen their understanding of science.

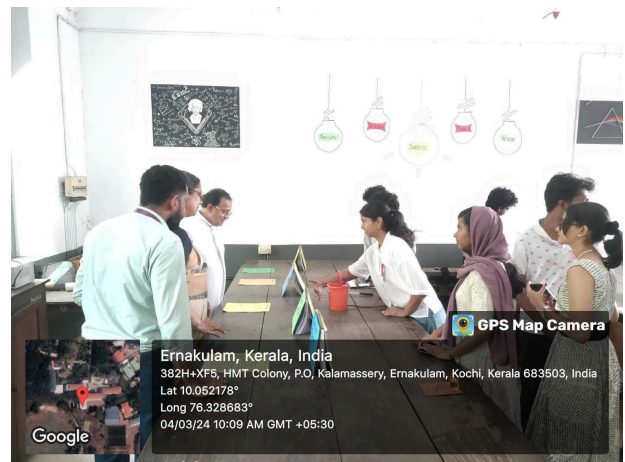
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SCIENCE EXHIBITION

KALEIDOSCOPE 2.0

4TH MARCH 2024
9:30AM - 3:30PM | VENUE : PHYSICS LAB

FACULTY COORDINATORS	HEAD OF DEPARTMENT	STUDENT COORDINATORS
DR. RAJESHMON VG MS. JIXY JOSEPH	DR. POORNIMA N	SMEEHAN S SHAMEEM GOPIKA RAJESH GOKUL K .A





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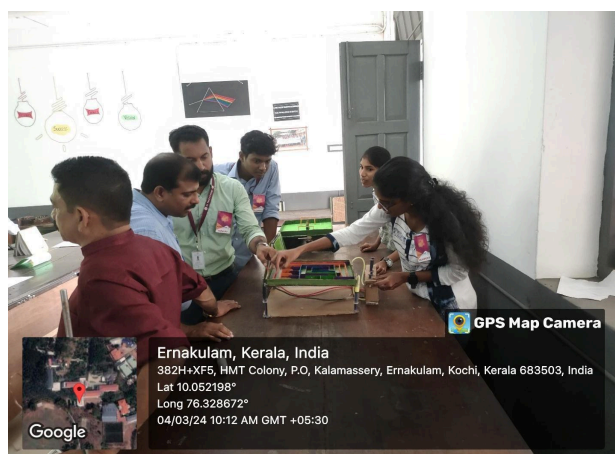
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7. One Day Workshop on Python Programming

Department of Physics in Association with the Department of Physics, Aquinas College, Edacochin organised a One Day Workshop on Python Programming. Post Graduate and Undergraduate students from various colleges in MG university and Calicut University and a few teachers attended the workshop.



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St. Paul's College
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Department of Physics

One Day Workshop on
Python Programming
Special focus on Computational Physics Lab
Course of M. Sc. Physics, Mahatma Gandhi University


07th March 2024
09.30AM - 03.30PM
Digital Library

In association with
Department of Physics
Aquinas College, Edacochin



Resource Person
Dr. Priyesh K. V.

Tutors
Abraham Lenus (II M Sc.)
Jithu P. R. (II M Sc.)



Registration fee. Rs. 100/-
(To be paid at the venue)

Lunch and Refreshments
will be provided
during the workshop

Scan to Register

Email: physics@stpauls.ac.in www.stpauls.ac.in Mobile: 9447295667



8. A Talk on “Women in Politics with special reference to reservation in the Legislature”



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The Department of Physics
&
Women Empowerment Cell

organizes

A Talk on

'Women in Politics with special reference to
reservation in legislature'



A Jayasankar, Advocate
Social Critic & Political Analyst

Date: 11-03-2024 Time: 9.30-10.30 a.m.
Venue: Baccinelli Hall

Teacher Coordinator	Student Coordinator
Dr. Poornima N	Mr. Sreeraj M R (I M.Sc. Phy)
HoD (Physics) & WEC Coordinator	Ms. Maya M (II M.Sc. Phy)



Sponsored by
The Kerala State Women's Development Corporation Ltd

The Department of Physics in association with the Women Empowerment Cell organized a talk on Women in Politics with special reference to reservation in the legislature led by Adv. A Jayasankar on 11-03-2024. Dr. Poornima N the coordinator of the programme welcomed the gathering. Prof. Dr. Pramada Ramachandran offered felicitation for the programme. Dr. Priyesh K V delivered the vote of thanks after the session by Adv. A Jayasankar.

