

**Assabah Arts & Science College, Valayamkulam**  
**P.G. Department of Physics**

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**ANNUAL REPORT 2023-2024**

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## PROGRAMME REPORT

Academic year: 2023-2024

### 1. Name of Seminar : “CHANDRAYAAN 3”

Date and Time	23 <sup>rd</sup> August 2023, 11.30am
Organized by	P.G. department of physics
Target participants	Assabah College Science Students
Venue	College Conference Hall

### **OBJECTIVES**

- Introduction to Chandrayaan 3: Begin by providing a brief overview of the mission, its background, and the motivation behind it. You can highlight the success of previous Indian lunar missions, such as Chandrayaan 1 and the subsequent Chandrayaan 2.
- Objectives of Chandrayaan 3: Discuss the specific goals of the mission. This may include the exploration and study of the moon's surface, including its geology, mineralogy, and topography. Highlight the importance of such research in advancing our understanding of the moon's history and its evolution.

### **DETAILS OF PROGRAMME**

The seminar presentation conducted by two students from the PG Department of Physics at the college conference hall was a captivating and informative event. The presentation focused on the topic of Chandrayaan 3, which generated significant interest among attendees. The event took place at 11:30 am and attracted students from various departments who were eager to learn about the latest developments in space exploration.

The presentation began with a comprehensive introduction to Chandrayaan 3, highlighting its purpose and objectives. The students provided an overview of the previous Chandrayaan missions and their accomplishments, setting the stage for the discussion of Chandrayaan 3.

The students went on to explain the scientific significance and potential benefits of Chandrayaan 3. They explored the mission's objectives, such as further understanding the lunar surface, conducting experiments to analyze the moon's composition and structure, and searching for potential resources that can aid future space explorations.

The presenters effectively utilized visual aids, including slides containing images and diagrams, to enhance the audience's understanding. They provided a detailed explanation of the technology and instruments involved in the mission, such as the lander, rover, and scientific payloads. This allowed the audience to grasp the complexity of the mission and the scientific advancements it aims to achieve.

Throughout the presentation, the students engaged the audience by encouraging questions and facilitating discussions. This interactive approach promoted active participation

and enabled attendees to delve deeper into the topic. The Q&A session that followed the presentation allowed students from various departments to share their perspectives and inquire about specific aspects of the mission.

The seminar presentation served as an excellent platform for the students to showcase their in-depth research and knowledge of Chandrayaan 3. Their passion and enthusiasm for the subject were evident in their delivery, creating a more engaging and memorable experience for the audience.

Overall, the seminar presentation on Chandrayaan 3 conducted by the two students from the PG Department of Physics was highly successful. It not only shed light on an ongoing and significant space exploration mission but also fostered interdisciplinary learning and collaboration among students from various departments. The event highlighted the importance of space exploration in advancing scientific knowledge and inspiring future generations to explore uncharted territories.



## PROGRAMME REPORT

Academic year: 2023-2024

### 2. Name of Seminar : **"Ozone Day"**

Date and Time	15 <sup>th</sup> September 2023, 10:30 AM - 12:30 PM
Organized by	P.G. department of physics and Science club
Target participants	Assabah College Science Students
Venue	College Conference Hall

On September 15, 2023, a seminar presentation was organized in celebration of Ozone Day by the PG Department of Physics and the Science Club. This event took place in the College Conference Hall, and it served as an enlightening opportunity to raise awareness about ozone depletion and its environmental consequences.

The seminar opened with a warm welcome speech delivered by Mr. Ranjuraj K, a member of the Department of Physics and also the Coordinator of the Science Club. His welcome speech set the stage for the proceedings of the day. The inauguration of the seminar was a distinguished moment, and it was graced by the presence of the college's Principal, Prof. Muhamed Koya M N. he inaugurated the event, emphasizing the significance of Ozone Day and the role of education in addressing environmental challenges. Following the inauguration, the Presidential Address was conducted by Mr. Vibitha, the Head of the Department of Geology and the Vice President of the Science Club. Her address provided valuable insights into the geological aspects of ozone depletion, linking it to the broader environmental context.

The seminar presentation, the central component of the event, was skillfully delivered by Dr. Nishanth T, an Assistant Professor in the Department of Physics at Sree Krishna College, Guruvayur. Dr. Nishanth's presentation was both informative and engaging, shedding light on the science behind ozone depletion and its consequences for our planet.

After the enlightening presentation, an interactive session was held, allowing participants to pose questions and engage in discussions with Dr. Nishanth. This interactive segment enhanced the understanding of the topic and encouraged active participation from the audience. The seminar concluded with a heartfelt Vote of Thanks presented by Irfana, a 3rd-semester MSc Physics student. Irfana expressed gratitude to all the participants, speakers, and organizers, recognizing their invaluable contributions to the success of the event.

In summary, the Ozone Day Seminar, organized by the PG Department of Physics and the Science Club, served as a commendable platform for raising awareness about ozone depletion and its environmental implications. The event successfully combined informative presentations, interactive discussions, and acknowledgments, aligning with the college's commitment to environmental education and advocacy.



**ASSABAH ARTS AND SCIENCE COLLEGE, VALAYAMKULAM**  
 P.G. DEPARTMENT OF PHYSICS & SCIENCE CLUB  
 PRESENTS  
**SEMINAR ON**  
**A JOURNEY THROUGH ATMOSPHERIC OZONE**  
 MONITORED BY IQAC

**Friday, 15th September 2023**  
**10:30 AM**  
**Conference Hall**  
 More Information:  
[iqacphysics@gmail.com](mailto:iqacphysics@gmail.com)

**Dr. Nishanth T**  
 Asst. Professor, Department of Physics,  
 Sree Krishna College, Guruvayur

## PROGRAMME REPORT

Academic year: 2023-2024

### 3. Name of poster competition : **"Ozone Day"**

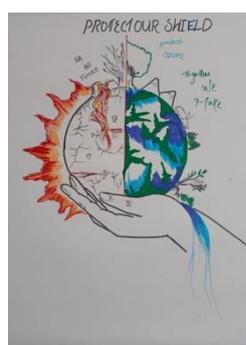
Date and Time	15 <sup>th</sup> September 2023, 2.00pm
Organized by	P.G. department of physics and Science club
Target participants	Assabah College Science Students
Venue	College Conference Hall

The poster competition held on September 15, 2023, at the conference hall was a significant success. A total of 6 enthusiastic students participated in the event. The highlight of the competition was the generous cash prize distribution to the winners by our esteemed Principal, Prof. Muhamed Koya M N.

The 1st and 2nd prizes were awarded to outstanding students by Prof. Muhamed Koya M N, making the event even more special. It's worth mentioning that the cash prizes for the winners were graciously sponsored by the management of our institution, demonstrating their commitment to recognizing and promoting talent among students.

Throughout the competition, the students' efforts were diligently monitored by a team of faculty members. Mr. Swalih from the Department of Geology, Annie from the Department of Psychology, and Krishna, the Head of the Food Technology Department, ensured that the competition ran smoothly and fairly.

In conclusion, the poster competition on September 15, 2023, was a well-organized and successful event, providing students with an opportunity to showcase their creativity and talents. The support of the institution's management and the active involvement of faculty members contributed to its success. We look forward to more such events in the future.



## PROGRAMME REPORT

Academic year: 2023-2024

### 4. Name of workshop : **LATEX**

Date and Time	11 <sup>TH</sup> October 2023, 9.30am to 3.30pm
Organized by	P.G. department of physics
Target participants	Inter College Science Students
Venue	Computer science lab

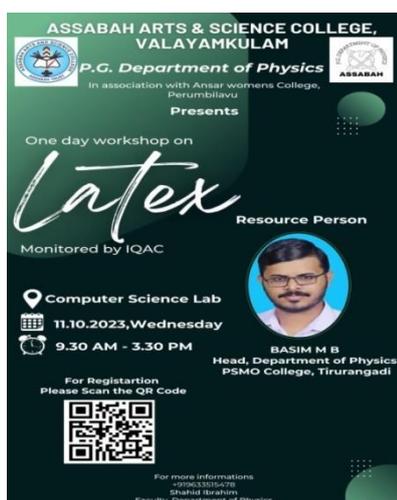
The workshop focused on providing a hands-on learning experience for the participants. It took place in the Computer Science lab, allowing the students to actively engage with the LaTeX program. During the workshop, the students had the opportunity to learn and practice using LaTeX for scientific and technical writing.

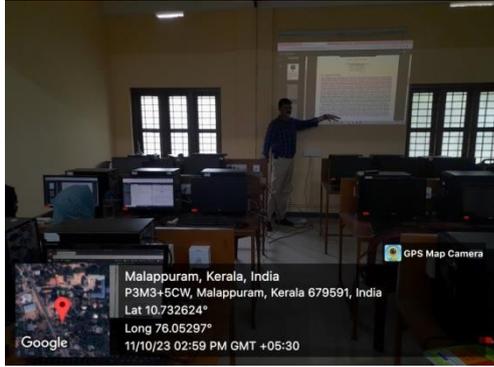
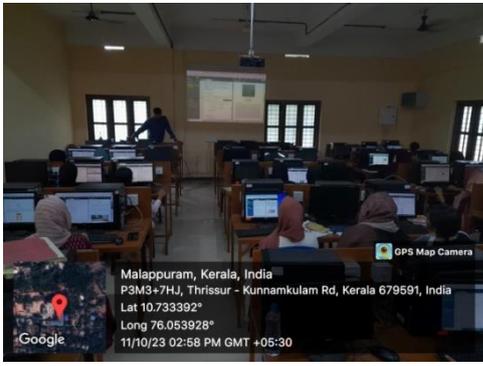
LaTeX is a widely-used typesetting system implemented in various scientific and technical fields. It offers extensive features and tools for producing high-quality documents, specifically in areas such as mathematics, physics, computer science, and engineering.

The workshop aimed to equip the participants with the necessary skills to effectively use LaTeX for their academic and research work. Basim M B, with his expertise and experience, guided the attendees through the program, demonstrating its capabilities and helping them overcome challenges in formatting, equations, and document structure.

By actively participating in the workshop, the students from Ansar Women's College and KV Usthad Pookkaratha had the opportunity to enhance their scientific writing skills and gain a deeper understanding of LaTeX's functionalities. The hands-on nature of the workshop provided a conducive learning environment, allowing the participants to grasp the concepts and application of LaTeX effectively.

Overall, the workshop conducted by the PG Department of Physics proved to be a valuable learning experience for the participants, who gained practical knowledge and skills in using the LaTeX program for their academic pursuits.





## PROGRAMME REPORT

Academic year: 2023-2024

### 5. Name of workshop : **LED REPAIRING AND ASSEMBLING**

Date and Time	21 <sup>ST</sup> DECEMBER 2023, 9.30am to 12.30pm
Organized by	P.G. department of physics & SCIENCE CLUB
Target participants	Inter College Science Students
Venue	COLLEGE AUDITORIUM

The LED Repairing and Assembling Workshop, organized by the PG Department of Physics in collaboration with the Science Club, took place on December 21, 2023, in the college auditorium. The workshop aimed to enhance participants' skills in LED repair and assembly.

Mr. Sabir P., a distinguished expert serving as the Resource Person from the EMC of Kerala, led the workshop. His expertise contributed significantly to the informative and practical aspects of the session.

A total of 47 students, comprising both undergraduate and postgraduate students, actively participated in the workshop. This diverse group added vibrancy and engagement to the learning environment.

Mr. Anandha Krishnan C, Assistant Professor of the PG Department of Physics, played a crucial role in coordinating the workshop. His dedication ensured the smooth execution of the event, contributing to its overall success.

Certificates were issued to all participants to acknowledge their active involvement in the workshop. This recognition serves to encourage continued learning and application of the skills acquired during the session.

The LED Repairing and Assembling Workshop provided a valuable opportunity for students to gain hands-on experience and insights into LED technology. The collaboration between the PG Department of Physics and the Science Club, along with the expertise of Mr. Sabir P., made the workshop a fruitful and enriching experience for all participants. Special thanks to Mr. Anandha Krishnan C for his commendable coordination efforts.





## PROGRAMME REPORT

Academic year: 2023-2024

### 6. Name of Invited Talk: **LIFE ON THE FROZEN CONTINENT – A YEAR IN ANTARCTICA**

Date and Time	January 5th, 2024, 10:00 am
Organized by	P.G. department of physics & SCIENCE CLUB
Target participants	College Science Students
Venue	College Conference Hall

The Invited Talk on **LIFE ON THE FROZEN CONTINENT – A YEAR IN ANTARCTICA**, organized by the PG Department of Physics in collaboration with the Science Club, unfolded as a noteworthy event on January 5th, 2024, at 10 am in the college conference hall.

The session commenced with a warm welcome speech by Ranjuraj K, Head of the PG Department of Physics and Coordinator of the Science Club. His words set an enthusiastic tone for the event, emphasizing the significance of the scientific discourse about to unfold.

Honourable Principal M N Mohamed Koya inaugurated the session, lending a prestigious start to the event. The presence of Mr. Ashraf PPM, the Management President, and other esteemed members added further gravitas to the occasion. Their felicitation highlighted the collaborative spirit fostering intellectual pursuits within the institution.

The main session featured Mr. Sahal Mohammed M N, a distinguished Scientist SD from ISRO's ISRAC in Bangalore. Mr. Sahal's presentation delved into cutting-edge advancements in space research, captivating the audience, especially the first-year science students who actively participated in the program. His insights provided a bridge between theoretical learning and real-world applications, inspiring the budding scientists in attendance.

The event reached its conclusion with a heartfelt vote of thanks delivered by Sajna K V, a respected faculty member of the PG Department of Physics. Sajna expressed gratitude to all participants, speakers, and contributors, underscoring the collaborative effort that made the event a success.

The Invited Talk served as a platform for knowledge dissemination, fostering a culture of scientific inquiry and exploration within the academic community. The amalgamation of academic leadership, administrative support, and expert insights made this event a milestone in the academic calendar, leaving a lasting impact on the students and faculty involved.



**ASSABAH ARTS & SCIENCE COLLEGE VALAYAMKULAM**

P.G. DEPARTMENT OF PHYSICS IN ASSOCIATION WITH SCIENCE CLUB

INVITED TALK ON  
**"LIFE ON THE FROZEN CONTINENT-  
*a year in Antarctica*"**



INAUGURATION  
**MOHAMED KOYA M N**

**FRIDAY, 05 JANUARY**  
 10.00 AM  
 CONFERENCE HALL



**SAHAL MOHAMMED M N**  
 SCIENTIST/ENGINEER-'SD'  
 ISTRAC-ISRO BANGLORE

MONITORED BY IQAC



## PROGRAMME REPORT

Academic year: 2023-2024

### 7. Name of extension program: **SHASTHRAAVABOTHAM PAREEKSHANANGALILOODE...**

Date and Time	27 <sup>th</sup> February 2024
Organized by	P.G. department of physics & SCIENCE CLUB
Target participants	AUP SCHOOL Students, NELLISSERY.
Venue	AUPS NELLISSERY, SUKHAPURAM

The Extension Program organized by the PG Department of Physics at AUPS Nellissery Sukhapuram on February 27, 2024, to commemorate National Science Day was a notable success. Sajna K V, a dedicated faculty member from the PG Department of Physics, conducted an engaging session in celebration of Science Day.

The event attracted a substantial turnout, with over 400 students from AUPS Nellissery actively participating. The program commenced with the inauguration conducted by Headmistress Ramla, adding a ceremonial touch to the occasion.

Sajna K V's session encompassed diverse topics related to physics, fostering a deeper understanding of scientific principles among the students. The interactive nature of the session facilitated lively discussions and questions, creating an enriching environment for learning.

The Extension Program not only served as an educational platform but also contributed to the promotion of scientific curiosity and awareness among the student community. The collaboration between the PG Department of Physics and AUPS Nellissery showcased the significance of science education, aligning with the objectives of National Science Day.

In conclusion, the Extension Program on National Science Day left a positive impact on the students, emphasizing the importance of science and its applications in daily life. Sajna K V's informative session and the event's inauguration by Headmistress Ramla added value to the overall success of the program.



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ശുക്രപുരം പി.ഒ. എടപ്പാൾ  
Email : aupsnellisseri@gmail.com

**February-28**  
**National Science Day**

ശാസ്ത്രാവബോധം  
പരീക്ഷണങ്ങളിലൂടെ...

Session: Cultivating scientific  
temper through experiments

27/02/2024  
3.00 PM



SHABNA YOUSUF  
(ASSISTANT PROFESSOR OF  
CHEMISTRY ASSABAH ARTS AND  
SCIENCE COLLEGE)



SAJNA K V  
(ASSISTANT PROFESSOR OF  
PHYSICS ASSABAH ARTS AND  
SCIENCE COLLEGE)



## PROGRAMME REPORT

Academic year: 2023-2024

### 1. Name of extension program: **"Eureka Nexus"**

Date and Time	1 <sup>ST</sup> MARCH 2024
Organized by	Department Of Physics , Chemistry & Mathematics
Target participants	Students Of Physics, Chemistry & Mathematics
Venue	COLLEGE AUDITORIUM

On March 1, 2024, an engaging Science Association Program named "Eureka Nexus" took place at the college conference hall, fostering collaboration between the departments of Physics, Chemistry, and Mathematics. The event commenced with a gracious welcome speech delivered by Sushama K, the Head of the Mathematics Department, setting an inviting tone for the proceedings.

Following the welcome, Mohamed Koya M N, the esteemed Principal of Assabah Arts and Science College Valayamkulam, delivered a thought-provoking presidential address, emphasizing the importance of interdisciplinary collaboration in scientific endeavors.

The highlight of the event was the inauguration of "Eureka Nexus" by Dr. Jithin M, Head and Assistant Professor of the Physics Department at KR SN College Valanchery. Dr. Jithin M provided valuable insights into the theme of the session, focusing on "Intellectual Property Rights for Industry and Academia." This choice of topic showcased the program's commitment to addressing contemporary issues relevant to both academic and industrial spheres.

The session gained momentum as it delved into discussions, attracting participants with its intellectually stimulating content. The inclusion of Intellectual Property Rights highlighted the growing significance of protecting innovations in the fields of science and technology.

An essential component of the program involved recognizing and appreciating the academic toppers among the recently graduated students. This acknowledgment not only celebrated academic excellence but also motivated current students to strive for similar achievements.

The facilitation of the session was expertly carried out by Sasidharan Sir, Praveen Sir, and Nusiaba. Their guidance ensured the smooth flow of the program, contributing to its overall success. The collaborative effort of the departments and the facilitators created a dynamic learning environment, fostering a sense of unity and enthusiasm among the participants.

In conclusion, the Science Association Program on March 1, 2024, provided a platform for knowledge exchange, celebration of academic accomplishments, and valuable insights into the critical realm of Intellectual Property Rights in science. The event exemplified the college's commitment to holistic education and interdisciplinary collaboration.

