



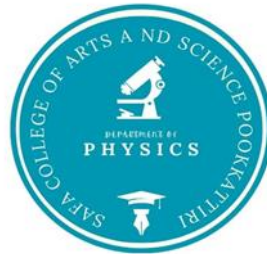
**SAFA** | COLLEGE OF  
ARTS AND SCIENCE

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# ANNUAL 2023 REPORT 2024

DEPARTMENT OF PHYSICS





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## 1) About the Department

Physics is an intriguing branch of science that investigates the fundamental principles governing the behavior of matter and energy in the universe. The department of physics in Safa college of arts and science is dedicated to provide study measures to students for the actual exploration of these principles that leading the physical world,.

The department provide undergraduate program in physics. The department has three teaching staff, lab attendant and a well-equipped laboratories with all facilities for graduate students. The department boasts fully functional lab facilities designed to provide students with practical experience in quenching their scientific curiosity

We have Memorandum of Understandings and collaborations with other academic institutions that help students get better exposure to advanced laboratory techniques and equipment. Every year students undergo internships in reputable institutes and get trained in various processes and technologies. Physics departments play a critical role in advancing our understanding of the natural world, leading to technological advances and innovations that benefit society.

## 2) Vision and Mission

To impart beneficial and high quality education and to mould generations of better human beings who excel in their respective fields, demonstrate kindness to fellow beings, and contribute constructively to the progress and welfare of the world

Promote research and scholarly activities to contribute to the development and welfare of society through academic achievements. Encourage and facilitate student involvement in community service and social responsibility projects, fostering an empathetic outlook.

## 3) Department Council

Composition of department Council

SL NO	NAME OF THE FACULTY	DESIGNATION	DEPARTMENTAL DUTY IN CHARGE
1	KARTHIKA KR	HEAD OF DEPARTMENT	Club coordinator, Time table coordinator
2	JAVED RAMZAN TK	ASSISTANT PROFESSOR	Field trip coordinator
3	HASEENA AP	ASSISTANT PROFESSOR	Department coordinator, Bridge course coordinator



#### 4) Department Club

- **Name of the club : Astro-club, Right-track club**
- **Faculty coordinator : Haseena AP , Javed Ramzan TK**
- **Student coordinator : Salva C, Sahala Thasni**
- **Objectives**
  1. Education and outreach
  2. Observational activities
  3. Research and discovery
  4. Celestial celebrations
  5. Collaboration and networking
- **List of activities**

SL NO	Name of the program	Date	Resource Person/collaboration agency	Number of students participated
1	National moon day-Magazine launching	21-07-2023	Nithin PV	18
2	Science day – Debate competition	28-02-2024	Karthika KR	18
3	Sci-Fi Movie Discussion - Interstellar	21-09-2024	Javed Ramzan TK	18
4	Ozone day celebration	15-09-2024	Jareena N	18

#### 5) Department Anti-ragging squad

Anti-ragging refers to measures and policies implemented to prevent and address ragging, which is a form of abuse and bullying often seen in educational institutions. Anti-ragging initiatives aim to create a safe and inclusive environment for all students. At Safa College, the establishment of both an **Anti-Ragging Cell** and an additional initiative like "**Anti-Ragging Squad**" indicates a strong commitment to combating ragging, and ensuring 'Zero-Tolerance' towards ragging - a safe environment if all students

SL NO	NAME OF STUDENTS	CLASS	SEMESTER
1	Mohammed Ajmal p	2 <sup>nd</sup> year UG	3 <sup>rd</sup>
2	Fathimath Munjiya KP	2 <sup>nd</sup> year UG	3 <sup>rd</sup>
3	Muhammed Muhsin VP	3 <sup>rd</sup> year UG	5 <sup>th</sup>
4	Risla PK	3 <sup>rd</sup> year UG	5 <sup>th</sup>



## 6) Department senator system

Department senator system serves as a vital component of student governance, providing a structured means for students to voice their concerns, propose initiatives, and contribute to the decision-making processes within their academic departments. These student leaders work closely with faculty, administrators, and other student government bodies to address issues such as curriculum changes, resource allocation, and the overall academic experience

SL NO	NAME OF STUDENTS	CLASS	SEMESTER
1	Abhiram	2 <sup>nd</sup> year UG	3 <sup>rd</sup>
2	Sahala Thasni	2 <sup>nd</sup> year UG	3 <sup>rd</sup>
3	Anas k	3 <sup>rd</sup> year UG	5 <sup>th</sup>
4	Salva C	3 <sup>rd</sup> year UG	5 <sup>th</sup>

## 7) Students Statistics

UG					
SL NO	BATCH	YEAR	MALE	FEMALE	Number of students
1	2021-2024	3 <sup>rd</sup>	2	8	10
2	2022-2025	2 <sup>nd</sup>	3	5	8

## 8) Mentor –Mentee system

A mentor-mentee system is a structured relationship where an experienced and knowledgeable individual (the mentor) provides guidance, support, and advice to a less experienced person (the mentee). This system is designed to facilitate personal and professional growth by leveraging the mentor's expertise and insights. Mentors help mentees navigate challenges, set and achieve goals, and develop new skills. The relationship fosters a supportive environment for the mentee to ask questions, seek feedback, and gain confidence in their abilities

MUMTHAZ BANU KP	FATHIMA NASHNIN K
UMMUL FIDHA VP	FATHIMA NASRIN M
FATHIMATHU ARSHIDHA	



NAME OF THE FACULTY: JAVED RAMZAN TK	
FINAL BSC PHYSICS	SECOND BSC PHYSICS
AMEENA JISMI T P	SAHALA THASNI
ANAS K	MUHAMMED AJMAL P
FATHIMA M P	

NAME OF THE FACULTY: JAREENA N	
FINAL BSC PHYSICS	SECOND BSC PHYSICS
FATHIMA SALVA CHERUKKATTIL	FATHIMA FIDA
RISLA P K	ARUN P

NAME OF THE FACULTY: HASEENA	
FINAL BSC PHYSICS	SECOND BSC PHYSICS
HASEENA ROSHNI P	ABHIRAM P
MUHAMMED MUHSIN V P	FATHIMATH MUNJIYA K P

## 9) Tutor meeting

A tutor meeting is a crucial component of an effective educational support system, aimed at enhancing the academic performance and personal development of students. The primary purpose of these meetings is to provide personalized guidance, address individual learning challenges, and reinforce understanding of complex subjects. Objectives include setting academic goals, reviewing monthly attendance, and developing strategies to improve study habits and academic skills. Typically scheduled at 1:00 pm, these sessions offer a structured yet flexible environment for students to seek clarification on difficult topics, discuss assignments, and prepare for exams. Held once or twice a month, these meetings ensure consistent support while allowing students ample time to apply the advice and techniques discussed. The tutor meeting fosters a collaborative and supportive learning atmosphere, encouraging students to engage actively in their educational journey and achieve their full potential.



## 10) FDP&PDP

LIST OF PROFESSIONAL DEVELOPMENT PROGRAMS				
SL NO	NAME OF THE FACULTY	NAME OF THE PDP	DATE	NAME OF ORGANIZING INSTITUTION
1	KARTHIKA KR	CHAT GPT AND ARTIFICIAL INTELLIGENCE TRAINING	15-12-2023	

## 11) Capacity enhancement

Soft Skill				
SL NO	Name of the program	Date	Resource Person/collaboration agency	Number of students participated
1	Workshop on basic electronics	01-03-2024	Sharad p,Thanseer kv/Sensacore Hyderabad	10
2	One day workshop on CRO operation	06-03-2024	Sayed Hussain/Markaz Arts and Science college,Athavanad	10
Life Skill				
SL NO	Name of the program	Date	Resource Person/collaboration agency	Number of students participated
2	Preparation and distribution of disinfectants to PHC	16-10-2023	Jareena N	18
Communication Skill				
SL NO	Name of the program	Date	Resource Person/collaboration agency	Number of students participated
1	Awareness talk on the importance of proper analysis of drinking water	12-07-2023	Jareena N	18
2	Awareness talk on the e-waste management	10-08-2023	Javed Ramzan TK	10
3	Academic lecturing for high school students	15-12-2023	Haseena AP	6
Recent Trends In Technology				
SL NO	Name of the program	Date	Resource Person/collaboration	Number of students



			agency	participated
1	One day hands on training on electronics at prominent	16-12-2023	Karthika KR/ Prominent solution	10

## 12) Student centric method

Experiential Learning				
SL NO	Name of the program	Date	Resource Person/collaboration agency	Number of students participated
1	Workshop on assembling and repairing of LED	26-06-2023 , 27-06-2023	Javed Ramzan TK	18
Participative Learning				
SL NO	Name of the program	Date	Resource Person/collaboration agency	Number of students participated
1	One day hands on training on electronics at prominent.	16-12-2023	Karthika KR /Prominent solution,Ulliyeri	10
2	JAM Coaching	Oct 2023onwards	Karthika KR	10
Problem Solving				
SL NO	Name of the program	Date	Resource Person/collaboration agency	Number of students participated
1	Peer group discussion to solve problems	Every Thursday 3:30-4:00 pm	Karthika KR	10

## 13) Examination and Results

Result Evaluation - UG																	
NAME OF THE PROGRAM	BAT CH	NUMBER OF STUDENTS APPEARED							NUMBER OF STUDENTS PASSED							PASS PERCENTAGE (2/10*100)	
		GENDER WISE CLASSIFICATION			CASTE WISE CLASSIFICATION				GENDER WISE CLASSIFICATION			CASTE WISE CLASSIFICATION					
		MALE	FEMALE	TOTAL	OB C	S C	S T	OT H ER	MA LE	FEM ALE	TOT AL	OB C	S C	S T	OT H ER		
Bsc physics	2021 - 2024	2	8	10	10	0	0	0	0	0	2	2	2	0	0	0	20





14) Student progression to higher education **and**

15) Placement details

UG					
BATCH	TOTAL NO OF STUDENTS	NO OF STUDENTS PLACED	PERCENTAGE OF STUDENTS PLACED	NO OF STUDENTS PROGRESSING FOR HIGHER EDUCATION	PERCENTAGE OF STUDENTS PROGRESSING FOR HIGHER EDUCATION
2021-2024	10	1	10	0	0

16) Research methodology workshop

Research methodology in a physics department involves a systematic approach to investigating physical phenomena. It includes formulating hypotheses, designing experiments, collecting and analyzing data, and developing theoretical models. Collaboration, peer review, and the use of advanced technology and mathematical tools are crucial to ensure accuracy and reliability of results.

SI No	Name Of The Workshop/ Seminar/ Conference	Name Of The Resource Person/Collaborating Agency	Number Of Participants	Date From – To
1	Seminar on research methodology	Dr. Jithin M	10	15 -01 2024

17) Cultural and sports activities

SI No	Date Of Event/Activity (DD-MM-YYYY)	Name Of The Event/Activity	Name Of The Organising Institution	Name Of The Student Participated
1	13-12-2023	Oppana	Safa college of arts and science ,Pookkattiri	Fathima Fidha



## 18) Seminar and conferences

The physics department offers engaging seminar classes that delve into advanced topics, fostering critical thinking and collaborative research. Students and faculty present cutting-edge findings, facilitating a dynamic exchange of ideas. These seminars enhance understanding, inspire innovation, and prepare participants for academic and professional success in the field of physics.

SEMINAR AND CONFERENCES				
Sl No	Name Of The Program	Date	Resource Person/Collaboration Agency	Number Of Students Participated
1	Seminar on research methodology	15-01-2024	Dr.Jithin M/ KRSN college, valanchery	10

## 19) PTA Meeting

The Physics Department organized a PTA meeting on July 20, 2023, for both the fifth and second semesters, addressing significant academic and non-academic concerns. The meeting for the fifth semester, held in the afternoon, was led by the executive members Mr. Mohammed Kasim P and Ms. Ramla V. The primary agenda included the evaluation of the university results. Detailed discussions were held to analyze students' performances and to identify areas needing improvement. Furthermore, the meeting addressed various non-academic matters, emphasizing the importance of extracurricular activities in fostering a well-rounded education. The PTA meeting for the second semester took place in the same day, overseen by Ms. Naseera and Ms. Faseela. The focus was on the internal evaluation of the second semester, with a thorough review of the students' progress and performance in internal assessments. The discussions highlighted the need for continuous assessment and timely feedback to help students stay on track.

Academic matters, including curriculum adjustments and support mechanisms for struggling students, were also deliberated. In addition, non-academic issues, such as the organization of workshops and seminars to enhance student skills and overall development, were discussed.

Both meetings underscored the collaborative effort between parents, teachers, and the administration in striving for academic excellence and holistic development. The proactive involvement of the PTA executive members played a pivotal role in addressing the diverse needs of the students, ensuring a comprehensive approach to education in the Physics Department.



## 20) Extension and outreaching activities

The physics department's extension and outreach program aims to inspire and educate the community through various initiatives. These include public lectures by renowned physicists, school partnerships with hands-on workshops, and engaging summer camps. The program also offers science fairs, competitions, and citizen science projects, fostering a deeper appreciation for physics.

SI No	Name Of The Activity	Organizing Unit/ Agency/ Collaborating Agency	Date	Resources Person / Coordinator	Number Of Participants
1	Ozone day celebration-talk	Department of Physics/Safa English school	15-09-2023	Karthika KR	18
2	Ozone day celebration-mime performance	Department of Physics/Safa College	15-09-2023	S6 students	18

## 21) Collaboration and MOU

The physics department's memorandum of understanding and collaboration programs foster academic and research partnerships. These agreements facilitate joint research projects, faculty and student exchanges, and shared resources with other institutions. By collaborating globally, the department enhances its research capabilities and provides students with diverse educational and professional development opportunities.

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Purpose of the MoU/Linkage (Internship, on-the-job training,	Duration of MoU / linkage	List the actual activities under each MOU/
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			<b>project work, student / faculty exchange and collaborative research)</b>		<b>Linkage and web - links year-wise</b>
1	One day workshop on CRO Operation	Markaz Arts and Science College,Athavand	student / faculty exchange and collaborative research	2020 - 2025	One day workshop on CRO Operation
2	One day hands on training session	Prominent solution,Ulliyeri,koyilandi,Kozhikode	student / faculty exchange and collaborative research	2019- 2024	One day hands on training session

## 22) Library N List User Statistics

SI No	Name of student	User name	Date	Time log	Page views
1	Aysha Noufiya	ayshnouf@gmail.com	Nov 2023	1	1
2	Jareena N	Jareenaashique4@gmail.com	June 2023	1	3
3	Javed Ramzan TK	javedtramzan@gmail.com	June 2023	1	3

## 23) Alumni

Alumni play a vital role in the life of a college, contributing in numerous ways that benefit both the institution and current students. Here is a brief overview of their importance and involvement. Importance of Alumni contributions are financial support, networking opportunities, workshops and seminars and community service projects. In the year 2023-2024, department conducted an alumni interaction with the students of the institution in the head 'SAY IT' (Safa Alumni Youth Inspirational Talk).



SAY IT				
SL NO	Name of the program	Date	Resource Person/collaboration agency	Number of students participated
1	Inspirational Talk – Application of physics in medicine	09/01/2024	Jowhar Ali Ahamed VP	10
2	Inspirational Talk – IT opportunities after graduation	16/02/2024	Mohammed Fasil KV	10

## 24) Cross cutting issues

Cross-cutting issues in the physics department include diversity and inclusion, ethical research practices, and sustainable development. Addressing these areas ensures a supportive environment, promotes equitable access to opportunities, and encourages responsible scientific inquiry. Emphasizing these issues helps the department align with broader societal goals and enhances overall academic excellence.

Gender				
SL NO	Name of the program	Date	Resource Person/collaboration agency	Number of students participated
1	Audit course-Gender studies	07-02-2024	Karthika KR	10
Human Values				
SL NO	Name of the program	Date	Resource Person/collaboration agency	Number of students participated
1	Audit course-Human rights	10-11-2023	Jareena N	18
3	Academic lecturing for high school students	15-12-2023	Haseena AP	6
Professional Ethics				
SL NO	Name of the program	Date	Resource Person/collaboration agency	Number of students participated
1	Hans on training sessions on electronics	16-12-2023	Prominent Solutions,Ulliyeri	10
2	One day workshop on CRO operations	06-03-2024	Markaz Arts and Science College,Athavand	10
3	One day workshop on basic	01-03-2024	Sharad n Thanseer	10



	electronics		kv/Sensacore Hyderabad	
Environment and Sustainability				
SL NO	Name of the program	Date	Resource Person/collaboration agency	Number of students participated
1	Ozone day celebration-talk for high school students	15-09-2023	Haseena AP	18
2	Ozone day celebration-mime performance	15-09-2023	Jareena N	18

## 25) Conclusion

In conclusion, the Physics Department at Safa College of Arts and Science ,Pookkattiri has achieved remarkable progress this year. Our students excelled in academics and participated actively in various outreach and collaboration programs. We have fostered a culture of innovation and inclusion, addressing key cross-cutting issues. We look forward to continuing our commitment to excellence in the coming year.

## 26) Photos- snapshot of major programs and events

### OZONE DAY CELEBRATION-MIME





## ONE DAY WORKSHOP ON CRO OPERATIONS



## OZONE DAY –MAGAZINE LAUNCHING

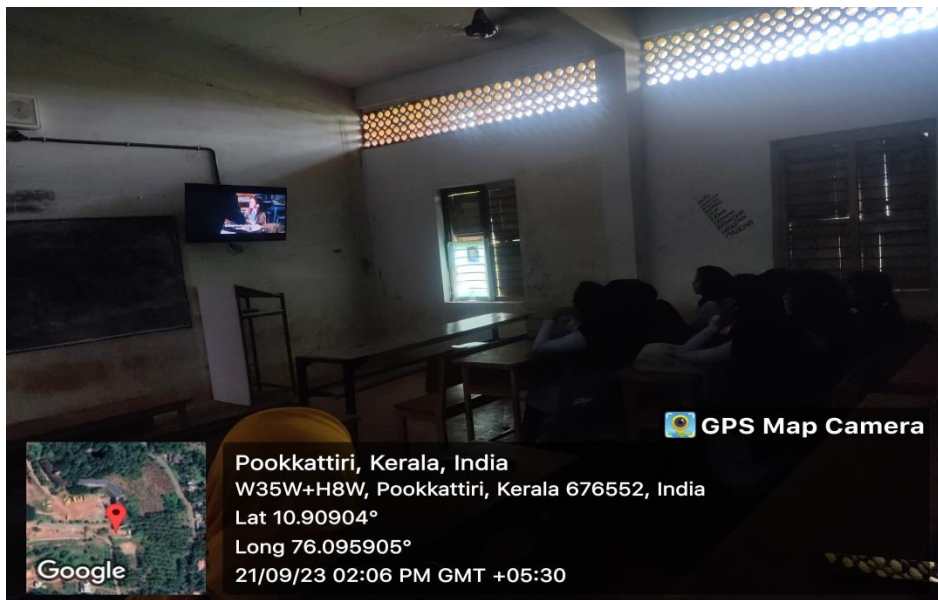




## SEMINAR ON RESEARCH METHEDODOLOGY



## SCI-FI MOVIE DISCUSSION –“ INTERSTELLAR



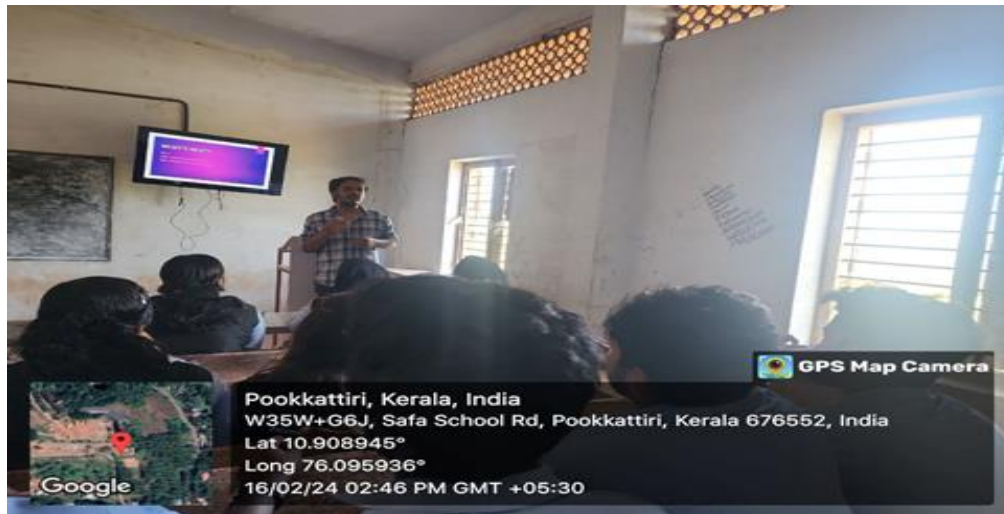




## SAY IT-APPLICATION OF PHYSICS IN MEDICINE



## SAY IT-IT OPPORTUNITIES AFTER GRADUATION





## ONE DAY WORKSHOP ON BASIC ELECTRONICS



## JAM COACHING





## PEER GROUP DISCUSSION



## AUDIT COURSE

