Training programme on hygiene products preparation for 'Kudumba Sree group' members

(Date: 16/11/2022)

As an outreach programme, the Department of Chemistry started a training programme on hygiene products preparation to 'Kudumba Sree group' members- Chalakudy (Venue: Aminity center, Number of participants-17).

The training programme aimed to empower participants with the knowledge and skills to produce essential hygiene products for personal and household use. The 'Kudumba Sree' group comprises women from marginalized communities, and this initiative sought to promote self-sufficiency and improve hygiene practices within their households.

Key Objectives:

- Empower 'Kudumba Sree' group members with practical skills in preparing essential hygiene products.
- Enhance awareness about the importance of hygiene and sanitation in maintaining health and well-being.
- Foster community engagement and collaboration between academic institutions and local communities.

Training Modules:

1. Introduction to Hygiene Products: The training began with an overview of essential hygiene products such as hand sanitizers, liquid soaps, and disinfectants. The importance of these products in preventing the spread of diseases, particularly in the context of the ongoing pandemic, was emphasized.

2. Chemistry Behind Hygiene Products: Students from the Department of Chemistry elucidated the chemical principles underlying the preparation of hygiene products. Topics such as surfactants, emulsifiers, and antimicrobial agents were discussed to provide participants with a fundamental understanding of the ingredients used in these products.

3. Hands-on Demonstrations: Practical demonstrations were conducted to illustrate the step-by-step process of preparing hygiene products. Participants were actively involved in mixing ingredients, adjusting formulations, and packaging the final products under the guidance of student mentors.

4. Safety and Quality Assurance: Attention was given to safety precautions and quality assurance measures during the production process. Participants were educated on proper handling of chemicals, adherence to hygiene standards, and labeling requirements to ensure the safety and efficacy of the products.

Impact and Feedback:

The training program received positive feedback from 'Kudumba Sree' group members, who expressed appreciation for the opportunity to learn new skills. Many participants expressed interest in incorporating these practices into their daily routines and sharing their knowledge with others in their communities.

Conclusion:

The training program on hygiene products preparation for 'Kudumba Sree' group members served as a successful collaborative effort between the Department of Chemistry and the local community. By equipping participants with practical skills and knowledge, the initiative aimed to promote hygiene awareness and empower individuals to take proactive steps towards improving their health and hygiene practices.




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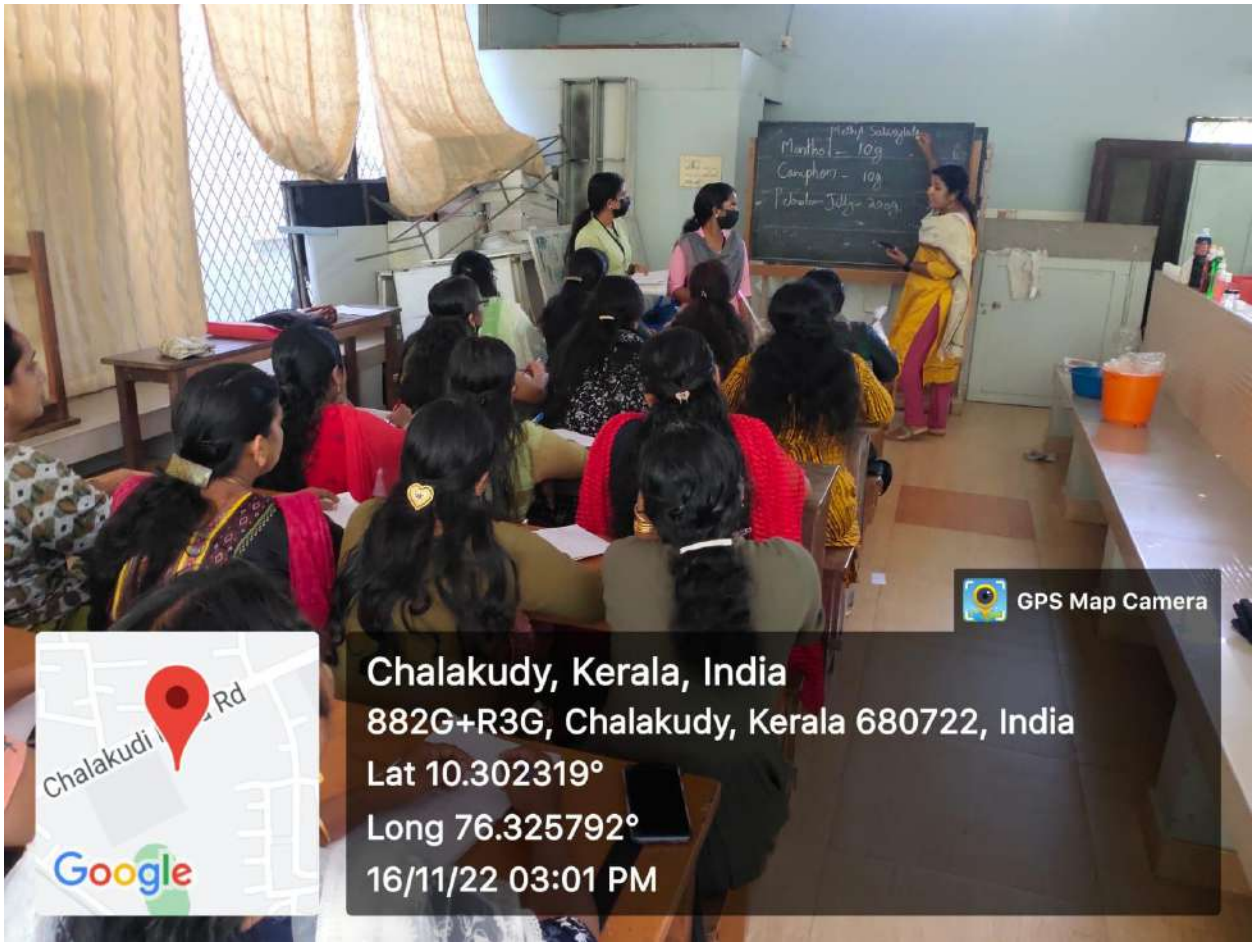
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List of our students participated in the programme

No.	Name	Class
1.	Abhirami K S	II DC Chemistry
2.	HridayaSubash	II DC Chemistry
3.	Isha P Sunilkumar	II DC Chemistry
4.	Sreenandhana A S	II DC Chemistry
5.	Suvarna K S	II DC Chemistry
6.	Aleena Wilson	II DC Chemistry
7.	Anagha Sunil	II DC Chemistry
8.	AswaniJibi	II DC Chemistry
9.	Bhavana K	II DC Chemistry
10.	Deepthi K	II DC Chemistry

Training programme on hygiene products preparation at Shanthibhavan, Chalakudy
(Date**:**14/11/2022)

The Department of Chemistry celebrated the 'Children's day' at Shantibhavan-Chalakudy (a social center for physically handicapped girls in Chalakudy) on 14/11/2022. As an outreach programme, the Department of Chemistry also conducted a training programme on hygiene products preparation to the inmates of Shanthibhavan- Chalakudy (Number of participants-29).

The primary objective of the training programme at Shanthibhavan was to empower and uplift physically handicapped girls by providing them with skills in hygiene products preparation. The training programme also aimed to promote self-sufficiency and improve hygiene practices among the participants. The programme covered the various aspects of hygiene product preparation, including theoretical knowledge, practical demonstrations, and hands-on training.

Training Sessions:

Theoretical Sessions: Introduction to hygiene product preparation, including the importance of hygiene in daily life. Overview of different types of hygiene products and their uses. Discussion on the significance of self-sufficiency and skill development. Discussions on entrepreneurship and income-generating opportunities through the production of hygiene products.

Practical Demonstration: Detailed demonstrations on the preparation of various hygiene products, such as soaps, detergents

Hands –on-Training: Participants actively engaged in the preparation of hygiene products under the guidance of first year B. Sc. Chemistry students. Practical sessions aimed at enhancing their skills and confidence in the product preparation process.

Outcomes and Achievements:

Participants demonstrated improved skills in hygiene product preparation, as observed during practical sessions. The training program significantly boosted the confidence of participants in their ability to create hygiene products independently. A noticeable increase in the understanding of the importance of hygiene and self-sufficiency among participants. The program facilitated bonding among participants, fostering a sense of community and mutual support.

Conclusion: The training program on hygiene product preparation was a step towards promoting self-sufficiency and improving hygiene practices among the inmates at Shanthibhavan. The positive outcomes observed during the program indicate the potential for future initiatives to further empower this community.


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SACRED HEART COLLEGE, CHALAKUDY

Department of Chemistry

Self-Sufficiency and Employability Programme







Training Programme on Hygienic Products Preparation at Shanthi Bhavan, Chalakudy

Date : 14/11/2022 Time : 1:00 pm

List of our students participated in the programme

No.	Name	Class
1.	AyshaRafeek	I B.Sc. Chemistry
2.	Deepika K R	I B.Sc. Chemistry
3.	Meghana Mohan	I B.Sc. Chemistry
4.	Nourin K P	I B.Sc. Chemistry
5.	Shiga P Sunilkumar	I B.Sc. Chemistry
6.	AmeeraNujain V N	I B.Sc. Chemistry
7.	Aparna Raj P T	I B.Sc. Chemistry
8.	Drishya K	I B.Sc. Chemistry
9.	Praveena K P	I B.Sc. Chemistry

Training programme on hygiene products preparation for students at Government Model Higher Secondary School, Chalakudy.

(Date: 9/01/2023)

As an extension activity, the Department of Chemistry conducted a training programme on hygiene products preparation to school students at Government Model Higher Secondary School, Chalakudy. I B. Sc. students presented the various steps of preparation to school students (Number of participants-49).

The primary objective of the training program at Government Model Higher Secondary School, Chalakudy, was to impart knowledge and practical skills to students in the preparation of hygiene products. The goal was to enhance their understanding of personal hygiene and provide them with valuable skills that promote self-sufficiency.

The training program spanned a one-day session at Government Model Higher Secondary School in Chalakudy. It focused on both theoretical understanding and hands-on training in the preparation of various hygiene products. A total of 49 students from Government Model Higher Secondary School actively participated in the training programme.

Training Sessions:

Theoretical Sessions: Introduction to the importance of personal hygiene and the role of hygiene products in daily life. Overview of various hygiene products, including soaps, detergents, and sanitizers. Discussion on the significance of developing skills for self-sufficiency.

Practical Demonstrations: Detailed demonstrations on the step-by-step preparation of hygiene products. Explanation of ingredients, equipment, and safety measures involved in the production process.

Hands –on Training: Students actively participated in the preparation of hygiene products under the guidance of experienced trainers. Practical sessions aimed at enhancing their skills and confidence in the product preparation process.

Outcomes and Achievements:

- Students demonstrated improved skills in hygiene product preparation, as observed during practical sessions.
- Students gained valuable hands-on experience in the production of hygiene products, fostering a practical understanding of the process.

Conclusion: The training program on hygiene product preparation at Government Model Higher Secondary School, Chalakudy, was successful in achieving its objectives of imparting knowledge and skills to students. The programme motivated the students to prepare their hygiene products by themselves in a cost effective manner. The positive outcomes observed during the program indicate the potential for future initiatives to further empower students in promoting personal hygiene and self-sufficiency.


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List of our students participated in the programme

No.	Name	Class
1.	AyshaRafeek	I B.Sc. Chemistry
2.	Deepika K R	I B.Sc. Chemistry
3.	Meghana Mohan	I B.Sc. Chemistry
4.	Nourin K P	I B.Sc. Chemistry
5.	Shiga P Sunilkumar	I B.Sc. Chemistry
6.	AmeeraNujain V N	I B.Sc. Chemistry
7.	Aparna Raj P T	I B.Sc. Chemistry
8.	Drishya K	I B.Sc. Chemistry
9.	Praveena K P	I B.Sc. Chemistry

Chemistry Magic Show and exhibition

In connection with the celebration of International Mole Day, Department of Chemistry, Sacred Heart College, Chalakudy organized an Exhibition and Chemistry Magic Show on October 27, 2022. The event aimed to promote awareness and appreciation of chemistry among students and the public through interactive exhibits and captivating demonstrations.

Objectives:

1. To celebrate International Mole Day and its significance in chemistry education.

2. To showcase the practical applications and wonders of chemistry through interactive exhibits.

3. To engage and inspire students with entertaining and educational chemistry demonstrations.

4. To foster a deeper understanding and appreciation of chemistry among participants.

The exhibition featured a variety of interactive displays and demonstrations highlighting different aspects of chemistry, including the periodic table, chemical reactions, laboratory equipment, and applications of chemistry in everyday life. Participants had the opportunity to explore hands-on exhibits and learn about key concepts in chemistry in a fun and engaging manner.

A chemistry magic show was conducted to captivate the audience with exciting and visually stunning demonstrations of chemical reactions and phenomena. Through a series of magical experiments, such as color changes, explosions, and transformations, participants were entertained while learning about the underlying principles of chemistry. An exhibition and power point presentation were organized to provide participants with in-depth knowledge and practical skills in various areas of chemistry. Topics covered during the presentation included chemical safety, laboratory techniques, environmental chemistry, and career opportunities in the field of chemistry.

The Exhibition and Chemistry Magic Show organized by the Department of Chemistry in connection with International Mole Day were highly successful in engaging and educating participants about the fascinating world of chemistry. Through a combination of interactive exhibits, captivating demonstrations, and powerpoint presentation, the event inspired curiosity, creativity, and a deeper appreciation for the role of chemistry in shaping our world.

SACRED HEART COLLEGE
CHALAKUDY

"SCIENTIA MAGICAE 2022"

CHEMISTRY MAGIC SHOW
EXHIBITION
&
SWEETS CORNER

ON
27 OCTOBER 2022
INAUGURATION AT 11 AM

VENUE : CHEMISTRY LAB & PREMISES

IN CONNECTION WITH
INTERNATIONAL MOLE DAY

BY
EUREKA CLUB
DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE
CHALAKUDY
Light shines in darkness

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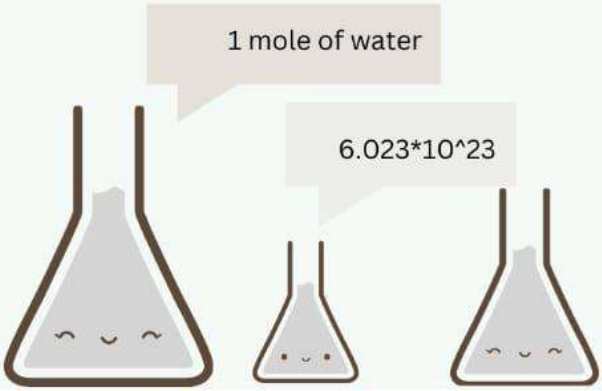





Chemistry magic show at St. Antony's High School, Kottat

(Date: 03/11/2022)

As an extension activity, the department of chemistry conducted the chemistry based magic show at St. Antony's High School, Kottat. I M. Sc. students presented the magic show to high school students.

The primary objective of organizing the Chemistry Magic Show at St. Antony's High School, Kottat was to make the subject of chemistry more engaging, entertaining, and accessible to students. The goal was to ignite curiosity, generate interest, and demonstrate the fascinating aspects of chemistry through interactive and visually appealing demonstrations.

The Chemistry Magic Show was a one-day event held at St. Antony's High School, Kottat. The show incorporated a series of visually stimulating experiments and demonstrations that showcased various chemical reactions, principles, and applications in an engaging and entertaining manner. The audience consisted of 104 students from different classes and teachers from St. Antony's High School, Kottat.

Activities Conducted:

1. Introduction and Welcome:
    - Brief introduction to the purpose of the event and the exciting demonstrations that awaited them.
2. Interactive Demonstrations:
    - Conducted a series of chemistry experiments designed to amaze and captivate the audience.
    - Demonstrations included color-changing reactions, exothermic reactions producing visible effects, and the creation of safe and visually stunning "magic" reactions.
3. Explanation and Learning
    - Provided explanations and insights into the scientific principles behind each magic trick.
    - Encouraging students to ask questions and fostering a sense of curiosity and wonder about chemistry.
4. Student Participation
    - Selected students from the audience to participate in some of the experiments, created a hands-on and engaging experience.
    - Involving students in demonstrations to enhance their understanding of chemical concepts.
5. Interactive Quiz
    - Conducted a short quiz based on the concepts demonstrated during the magic show.
    - Recognized and rewarded students who actively participated and answered questions correctly.

Outcomes and Achievements:

The Chemistry Magic Show succeeded in capturing the attention of students and fostering a newfound interest in the subject. The interactive and visually appealing demonstrations contributed to a better understanding of various chemical principles among the students. The event contributed to the promotion of science, specifically chemistry, as an exciting and accessible field of study. Both students and teachers provided positive feedback, expressing their enjoyment and appreciation for the unique approach to learning chemistry.







List of our students participated in the programme

No.	Name	Class
1.	NazrinArakkaparambilNasarudeen	I M.Sc. Chemistry
2.	Anjana V.M	I M.Sc. Chemistry
3.	VyshnaviKartha	I M.Sc. Chemistry
4.	Reshma C C	I M.Sc. Chemistry
5.	Vishnupriya V R	I M.Sc. Chemistry
6.	Celina K F	I M.Sc. Chemistry
7.	Riya Rasana R R	I M.Sc. Chemistry
8.	Theertha Krishna	I M.Sc. Chemistry
9.	Sneha C S	I M.Sc. Chemistry
10.	Shaniba P	I M.Sc. Chemistry

Chemistry magic show at V. R. Puram Government Higher Secondary School

(Date: 03/11/2022)

As an extension activity, the department of chemistry conducted the chemistry based magic show at V. R. Puram Government Higher Secondary School. I M. Sc. students presented the magic show to high school students.

The primary objective of organizing the Chemistry Magic Show at V. R. Puram Government Higher Secondary School was to make the subject of chemistry more engaging, entertaining, and accessible to students. The goal was to ignite curiosity, generate interest, and demonstrate the fascinating aspects of chemistry through interactive and visually appealing demonstrations.

The Chemistry Magic Show was a one-day event held at V. R. Puram Government Higher Secondary School. The show incorporated a series of visually stimulating experiments and demonstrations that showcased various chemical reactions, principles, and applications in an engaging and entertaining manner. The audience consisted of 104 students from different classes and teachers from V. R. Puram Government Higher Secondary School.

Activities Conducted:

1. Introduction and Welcome:
    - Brief introduction to the purpose of the event and the exciting demonstrations that awaited them.
2. Interactive Demonstrations:
    - Conducted a series of chemistry experiments designed to amaze and captivate the audience.
    - Demonstrations included color-changing reactions, exothermic reactions producing visible effects, and the creation of safe and visually stunning "magic" reactions.
3. Explanation and Learning
    - Provided explanations and insights into the scientific principles behind each magic trick.
    - Encouraging students to ask questions and fostering a sense of curiosity and wonder about chemistry.
4. Student Participation
    - Selected students from the audience to participate in some of the experiments, created a hands-on and engaging experience.
    - Involving students in demonstrations to enhance their understanding of chemical concepts.
5. Interactive Quiz
    - Conducted a short quiz based on the concepts demonstrated during the magic show.
    - Recognized and rewarded students who actively participated and answered questions correctly.

Outcomes and Achievements:

The Chemistry Magic Show succeeded in capturing the attention of students and fostering a newfound interest in the subject. The interactive and visually appealing demonstrations contributed to a better understanding of various chemical principles among the students. The event contributed to the promotion of science, specifically chemistry, as an exciting and accessible field of study. Both students and teachers provided positive feedback, expressing their enjoyment and appreciation for the unique approach to learning chemistry.






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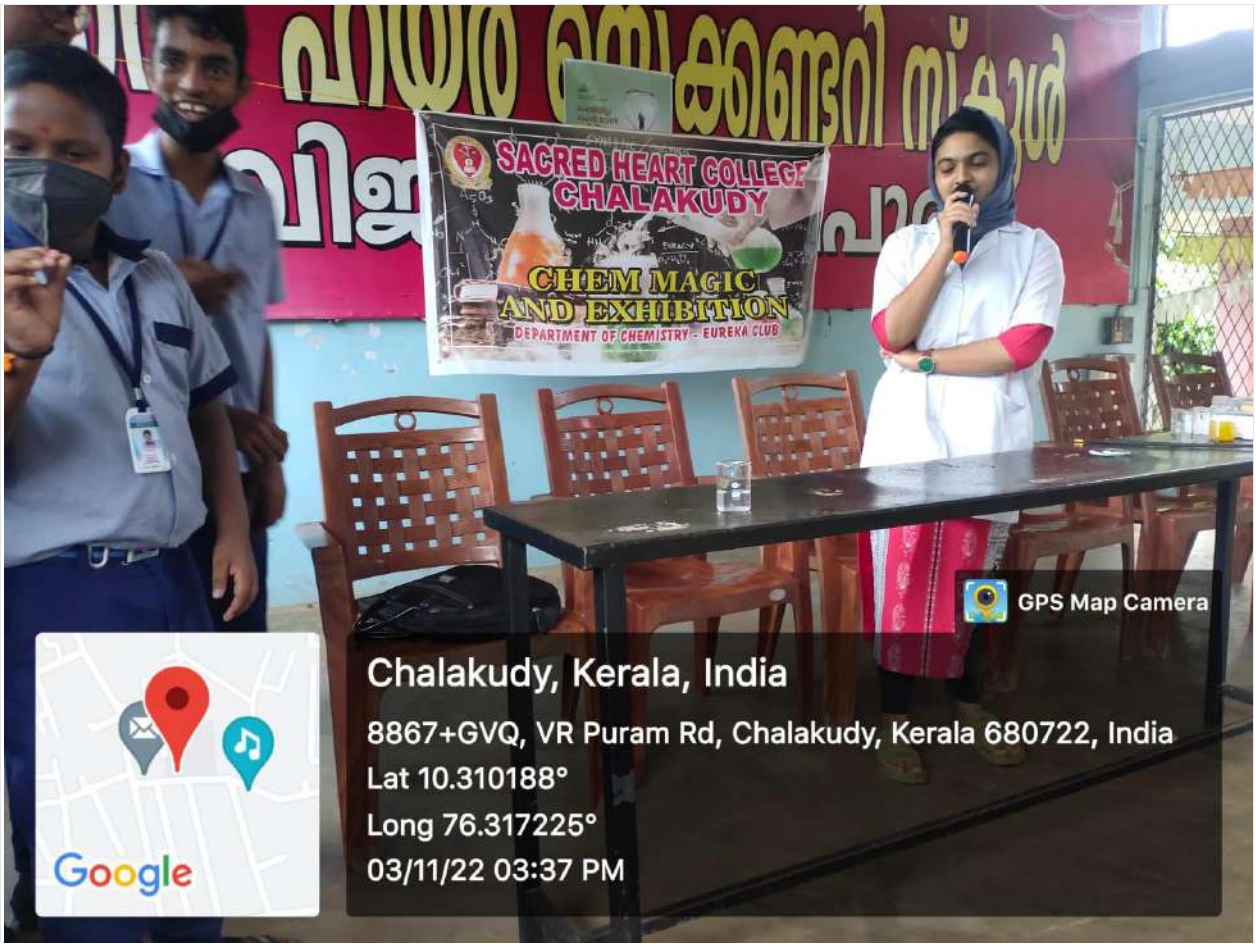
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DEPARTMENT OF CHEMISTRY - EUREKA CLUB
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List of our students participated in the programme

No.	Name	Class
1.	NazrinArakkaparambilNasarudeen	I M.Sc. Chemistry
2.	Anjana V.M	I M.Sc. Chemistry
3.	VyshnaviKartha	I M.Sc. Chemistry
4.	Reshma C C	I M.Sc. Chemistry
5.	Vishnupriya V R	I M.Sc. Chemistry
6.	Celina K F	I M.Sc. Chemistry
7.	Riya Rasana R R	I M.Sc. Chemistry
8.	Theertha Krishna	I M.Sc. Chemistry
9.	Sneha C S	I M.Sc. Chemistry
10.	Shaniba P	I M.Sc. Chemistry

Add-on course- “Food additives and adulterants”

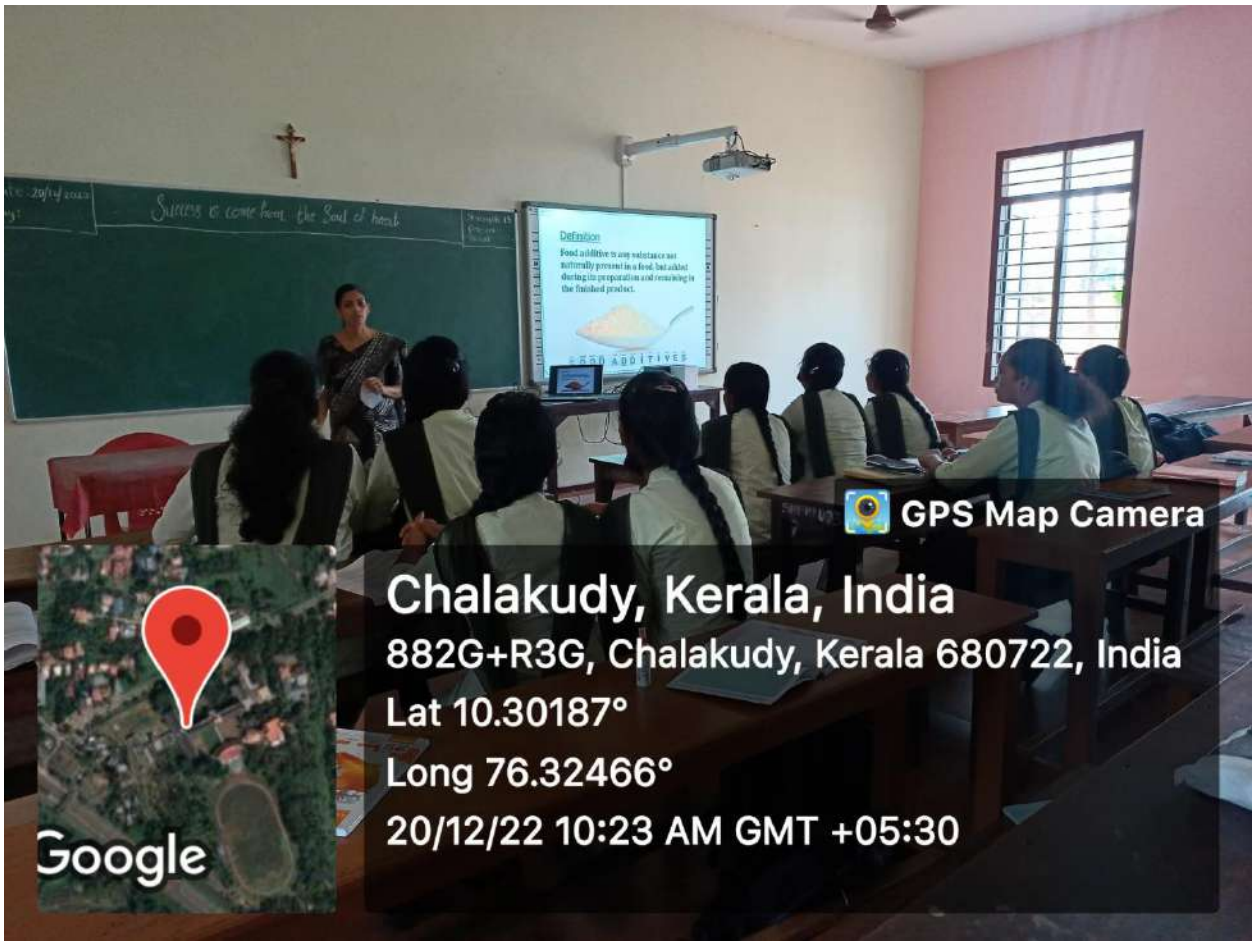
In a pioneering educational venture, Dr. Anjaly Jacob K. has spearheaded an innovative add-on course that explores the intricate interplay between "Food Additives" and "Adulterants." This course, designed to unravel the complexities of both realms, has captured the attention of 15 enthusiastic students keen on understanding the scientific and ethical dimensions of these critical subjects.

Under Dr. Anjaly's guidance, the course delves into the scientific intricacies of food additives, shedding light on their roles in food processing, safety considerations, and regulatory frameworks. Simultaneously, it examines the darker side of the food industry by exploring adulteration practices, emphasizing the ethical implications, legal consequences, and the impact on public health.

The collaborative nature of the course encourages students to engage in discussions that bridge the gap between the scientific principles of food additives and the ethical considerations of adulterants. Dr. Anjaly employs a multidisciplinary approach, fostering an environment where students can appreciate the connections between these seemingly disparate subjects. Dr. Anjaly's commitment to hands-on learning is reflected in planned practical sessions that allow students to identify adulterants and understand the application of food additives in various products.

As the course progresses, Dr. Anjaly envisions collaborative projects that challenge students to propose solutions to mitigate food adulteration while maximizing the benefits of food additives. This holistic approach aims to empower students with a well-rounded understanding of the challenges and opportunities within the food industry.

In conclusion, the "Food Additives and Adulterants" Add-On Course led stands as a testament to the integration of scientific and ethical dimensions in education. The 15 students enrolled in this course are poised to emerge with a nuanced understanding of the complexities surrounding food safety, regulation, and ethical considerations, positioning them as informed and responsible contributors to the field.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ALUMNAE INTERACTION SERIES BY ATHIRA S.NAIR

(Date: 21/12/2022)

The department of chemistry and Eureka club conducted “Alchemi-alumnae interaction series” by Athira S Nair(Chemist, Three star hallmarking centre- Chalakudy)at II DC chemistry class room.(No of participants- 42)

The third section was on the topic “Opportunities as chemist in gold hallmarking centre. Athira S. Nair (Chemist, Threestar hallmarking centre-Chalakudy) was the resource person of the programme. The programme was conducted on 21/12/2022 at 12.45 noon.

The objective of the session on "Opportunities as a Chemist in Gold Hallmarking Centers" was to provide participants with a comprehensive understanding of the roles, responsibilities, and career opportunities available for chemists within the gold hallmarking industry.

The session began with an overview of gold hallmarking, explaining its significance in the jewelry industry and the regulatory standards governing the process. The session aimed to chemistry students with insights into the opportunities available in the gold hallmarking industry and to guide them on potential career paths as chemists in this sector.

Outcomes

- Increased awareness among students about the gold hallmarking industry.
- Enhanced understanding of the specific roles and responsibilities of chemists in this sector.

Conclusion

The session successfully achieved its objectives by providing chemistry students with valuable insights into the opportunities available in gold hallmarking. The interactive nature of the session facilitated a dynamic learning experience, fostering interest and enthusiasm among the participants.

ALCHEMI - ALUMNAE INTERACTION SERIES - 3

Topic :- OPPORTUNITIES AS CHEMIST IN GOLD HALLMARKING CENTRE

Resource Person: Athira S Nair [Three star Hallmarking centre Chalakudy]

Sl No	Name	Class	Signature
1.	Meghana Mohan	I DC chemistry	Meghana
2.	Praveena K.P	"	
3	Aswathy pradeep	III rd DC chemistry	
4.	Manjima Sunil	"	
5	Anagha Sunil	"	
6.	ANGEL FEBA	"	
7	Megha PP	"	
8	Sreelakshmi E.K	"	
9	Uthara T.B	"	
10	Shahanaz Fathima	"	
11	Sneha Shaju	"	
12	Biji V.I	"	
13	Amrutha T.K	"	
14.	Akhila A.B	"	
15.	Ahalya V.L	"	
16	Pavithra V. Menon	"	
17	Jaishna E.M	"	
18	Sandra M.A	"	
19	Hiba U	"	
20	Jyothilakshmi A.S	"	
21	Krishnapriya Unnikrishnan	II Msc chemistry	
22	Sreelakshmi AS	"	
23	Nivedhya Rajeesh	"	
24	Ansa	"	
25	Aswathi	"	
26	Jrena	"	
27	Malavika	"	
28	Mayadevi	"	
29	Akhila	"	

30	Aiswarya Marlyn	II Msc Chemistry	Aiswa
31	Anjana V.M	I Msc Chemistry	Anjana
32	Nazrin	"	
33	Theertha	"	
34	Sneha	"	
35	Riya	"	
36	Shaniba	"	
37	Reshma	"	
38	Celina	"	
39	Deepika K.R	I st DC chemistry	Deepika
40	Shiga P. Sunilkumar	"	Shiga
41	Aleena Joy	III rd DC Chemistry	Aleena J
42	Aleena Joshy	" "	Aleena
		"	
		"	

ALUMNAE INTERACTION SERIES BY ANNMARY ANTO

(Date:14/12/2022)

The department of chemistry and Eureka club conducted “Alchemi-alumnae interaction series” for motivating the students by by Annmary Anto (Project Associate-1,NCL,Pune) at II DC chemistry class room.(No of participants- 54) The section was on the topic “How to boost your career in chemistry”. The programme was conducted on 14/12/2022 at 12.45 noon via google meet.

The primary aim of this session was to provide participants with valuable insights, strategies, and guidance to enhance their professional growth and success in the field of chemistry.
The session on "How to Boost a Career in Chemistry" aimed to provide participants with valuable insights and strategies for enhancing their professional growth in the field of chemistry. The session covered diverse aspects, including career awareness, skill development, networking, and professional development opportunities.

From this class, students gained insights into various career paths within chemistry, including academia, industry, research, and entrepreneurship.Andalso emphasis on understanding the scope and opportunities available in different sectors.

Outcomes: IncreasedCareerClarity:Participants gained a clearer understanding of the diverse career paths within the field of chemistry, leading to informed career decisions.

Enhanced Skill Set: Attendees identified and developed essential skills necessary for success in the field, contributing to their professional competence.

Conclusion: session successfully achieved its objectives by empowering participants with the knowledge, skills, and resources necessary to navigate and excel in their careers in chemistry. The outcomes contribute to participants' professional growth and preparedness for the dynamic landscape of the chemistry industry.

14/12/22 ALCHEMI - ALUMNAE INTERACTION SERIES - II

TOPIC : HOW TO BOOST YOUR CAREER IN CHEMISTRY

VENUE : II DC CHEMISTRY CLASS ROOM (VIA- GOOGLE MEET)

Resource Person - Annmary Antu, Project Associate-I, NCL Pune

	Name	Class	Sign.
1	Akhila A.B	III Bsc chemistry	Akhila.
2	Aleena Joy	"	Aleena J.
3.	Aswani Jiby.	II DC chemistry	Aswani.
4.	Aleena Wilson	"	Aleena.
5	Aleena joshy	III rd DC chemistry	Aleena
6.	Sandra M.A	"	
7	Aswathy pradeep	"	Aswathy.
8.	Manjima Sunil	"	Manjima
9	Sneha Shaju	"	
10	Uthara T.B	"	
11	Jaishna E.M	"	Jaishna
12	Pavithra R Menon	"	
13	Aiswarya. P R	"	
14	Aiswarya Krishna	"	
15	Megha PP	"	Megha
16	ANGEL TEBA	"	Anu
17	Sreelakshmi. C.K	"	Sreelakshmi
18	Biji. V I	"	Biji
19	Jewel Johny	"	
20	Krishnapriya C.G	"	Krishnapriya
21	Ruji Rasan R.R.	I st M.Sc chemistry	Ruji.
22	Sheertha Krishna	"	Sheertha
23	Nazuii	"	Nazuii
24	Reshma	"	Reshma
25	Sneha C.S	"	Sneha
26.	Vishnupriya	"	Vishnupriya
27.	Shanila	"	Shanila

28	Amrutha · T.K	IIIrd DC Chemistry	Amrutha
29	Jyothilakshmi A.S	"	Jyothi.
30	Deepika K.R	Ist DC chemistry	Deepika
31	Shiga · P. Sunilkumaar	"	Shiga
32	Aparna Raj P.T	"	Aparna
33	Meghana Mohan	"	Meghana
34	Drishya k	"	[illegible]
35	praveena k.P	"	[illegible]
36	Anuda M.S	IInd Msc Chemistry	[illegible]
37	Meera K.V	"	[illegible]
38	Aiswarya	"	[illegible]
39	Nivedhya.	"	[illegible]
40	Jeena	"	[illegible]
41	Nivedhitha p.subhash	2nd Bsc chemistry	[illegible]
42	Isha p. sunilkumar	"	[illegible]
43	Bhavana k	"	[illegible]
44	Dheepthi k	"	Deepthi
45	Anagha sunil	"	[illegible]
46	Souparnnika T.J	"	[illegible]
47	Efriya P.I	"	[illegible]
48	Jesna Jofy	"	Jesna
49	Emil maria	"	Emil
50	Hiba.U	IIIrd DC chemistry	[illegible]
51	Aswathi.s	2nd Msc chemistry	[illegible]
52	Krishnapriya Unnikrishnan	IInd Msc chemistry	[illegible]
53	Anupama · K · B	IIIrd BSc Chemistry	[illegible]
54	Ahalya V.L	IIIrd Bsc Chemistry	[illegible]

ALCHEMI - ALUMNAE INTERACTION SERIES II



Annmary Anto

Project
Associate- 1
(NCL, Pune)

Topic - How to boost your career in Chemistry

on

14/12/2022

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Venue - II DC Chemistry classroom

Eureka Club

Department of Chemistry

Sacred Heart College Chalakudy





ALUMNI INTERACTION SERIES BY KRISHNA JOSHY

(Date:9/12/2022)

The department of chemistry and Eureka club conducted “Alchemi-alumnae interaction series”by Krishna Joshy (Chemist, Nowra chemical manufacturers-Australia at II DC chemistry classroom.(No of participants-)

The aim of this section was to motivate and empower students with comprehensive information and insights that will enable them to make informed decisions about pursuing higher education in Australia.

The first section was on the topic “Opportunities and higher studies in Australia”. Krishna Joshywas the resource person of the programme. The programme was conducted on 09/12/2022 at 10.30 am via google meet.

This interaction Created an awareness about the diverse range of academic opportunities available in Australian universities, including various disciplines and courses. And also Provide students with a deep understanding of the Australian education system, including academic structures, programs, and the overall quality of education. Especially about the information about scholarships, grants, and financial aid options to make education in Australia more accessible.

Outcomes and achievements

Students gain a comprehensive understanding of the Australian education system, empowering them to make informed decisions about pursuing higher studies. Enhanced awareness of diverse academic programs and courses available in Australian universities, leading to better-informed choices.

Conclusion

The section by Krishna Joshy , was successful in achieving its objectives by providing a comprehensive understanding of the Australian education system, fostering awareness of academic opportunities, and offering insights into financial support and career prospects, the program empowers students to make informed decisions about their higher education journey.

	Name	Class	Signature
1.	Abhirami K.S	II nd DC chemistry	
2	Haridaya Subash	"	
3.	Anagha sunil	II nd DC chemistry	
4.	Sreenandhana A.S.	"	
5	Bhavana K	"	
6	Nivedhitha P. Subash	"	
7	Deepthi K	"	
8	Usha P. Sunikumas	"	
9	Aleena Wilson	"	
10	Emil Maria	"	
11.	Efroya P.T	"	
12.	Jesna JOEY	"	
13.	Suvarna K.S	"	
14	Souparnnika T.J	"	
15	Aswani Jibi	"	

Alchemi - Alumnae Interaction series



krishna Joshy

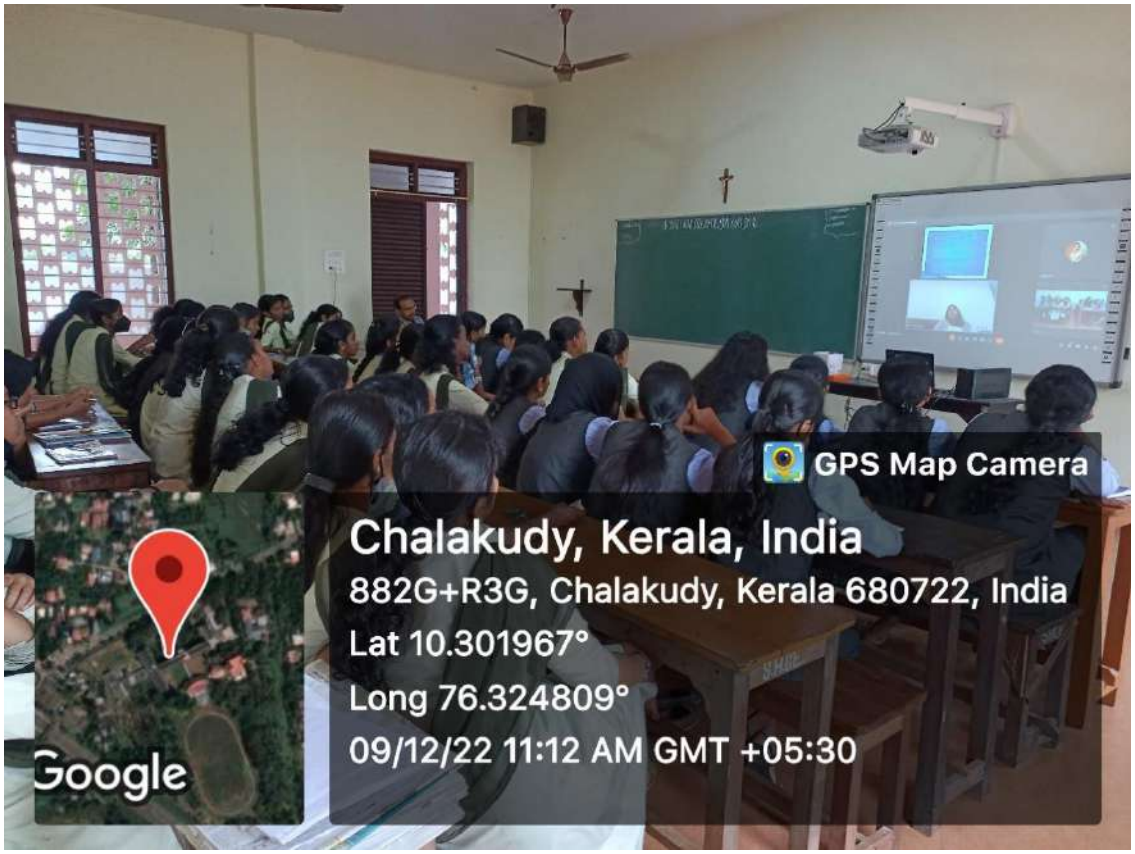
Chemist(Nowra Chemical Manufacturers)
Australia

Topic - **Opportunities and higher studies in Australia**

on
9/12/2022
10.30 AM

Venue
II DC Chemistry classroom

Eureka Club
Department of Chemistry
Sacred Heart College Chalakudy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Seminar on Research Methodology

(6-1-2023)

The Chemistry Association Inauguration and a seminar on Research Methodology were conducted at Clare hall in January 6, 2023. The event was organized by the Chemistry Department with enthusiastic participation from students and faculty members. Dr. Jorphine Joseph (Assistant Professor, Department of Chemical Oceanography, Cochin University of Science and Technology) was the chief guest of the session. He delivered an engaging talk on research methodology in the context of chemistry. A total of 72 students actively participated in the event, including undergraduate and postgraduate students from the Chemistry Department.

The primary objective of the event was to provide students with valuable insights into research methodology. The talk by the Chief Guest, Jorphine Joseph, aimed to inspire and educate students on effective research practices within the field of chemistry. The talk covered key aspects such as literature review, experimental design, data analysis, and effective communication of research findings.

Dr. Jorphine Joseph, an eminent figure in the field, commenced the seminar by delving into the fundamental aspects of research methodology. His expertise shone through as he navigated through the intricacies of the research process, emphasizing the significance of literature review, hypothesis formulation, and research design.

The second session, focusing on advanced research techniques, was equally enlightening. Dr. Joseph provided insights into experimental design, statistical analysis, and data interpretation, offering a bridge between theoretical knowledge and practical application. The inclusion of case studies and examples served as a valuable tool to illustrate the real-world implications of research methodology. The seminar facilitated an interactive environment, fostering a dynamic exchange during the Q&A session. Attendees seized the opportunity to seek clarification on specific concepts and engage in discussions that further enriched their understanding.

One of the notable aspects of the seminar was its applicability. Dr. Jorphine Joseph skillfully presented case studies and examples, demonstrating how research methodology principles could be translated into tangible solutions for real-world challenges. This practical approach resonated with the audience, making the content accessible and relevant.

The event witnessed active participation from students, with 72 attendees showing enthusiasm for the inauguration and the research methodology talk. The talk by Jorphine Joseph inspired students by providing insights into effective research methodologies and sharing his own experiences. Case studies and examples facilitated the practical application of research methodology concepts, making the information more accessible and applicable. The interactive session allowed students to connect with the Chief Guest, fostering networking opportunities and potential mentorship relationships.


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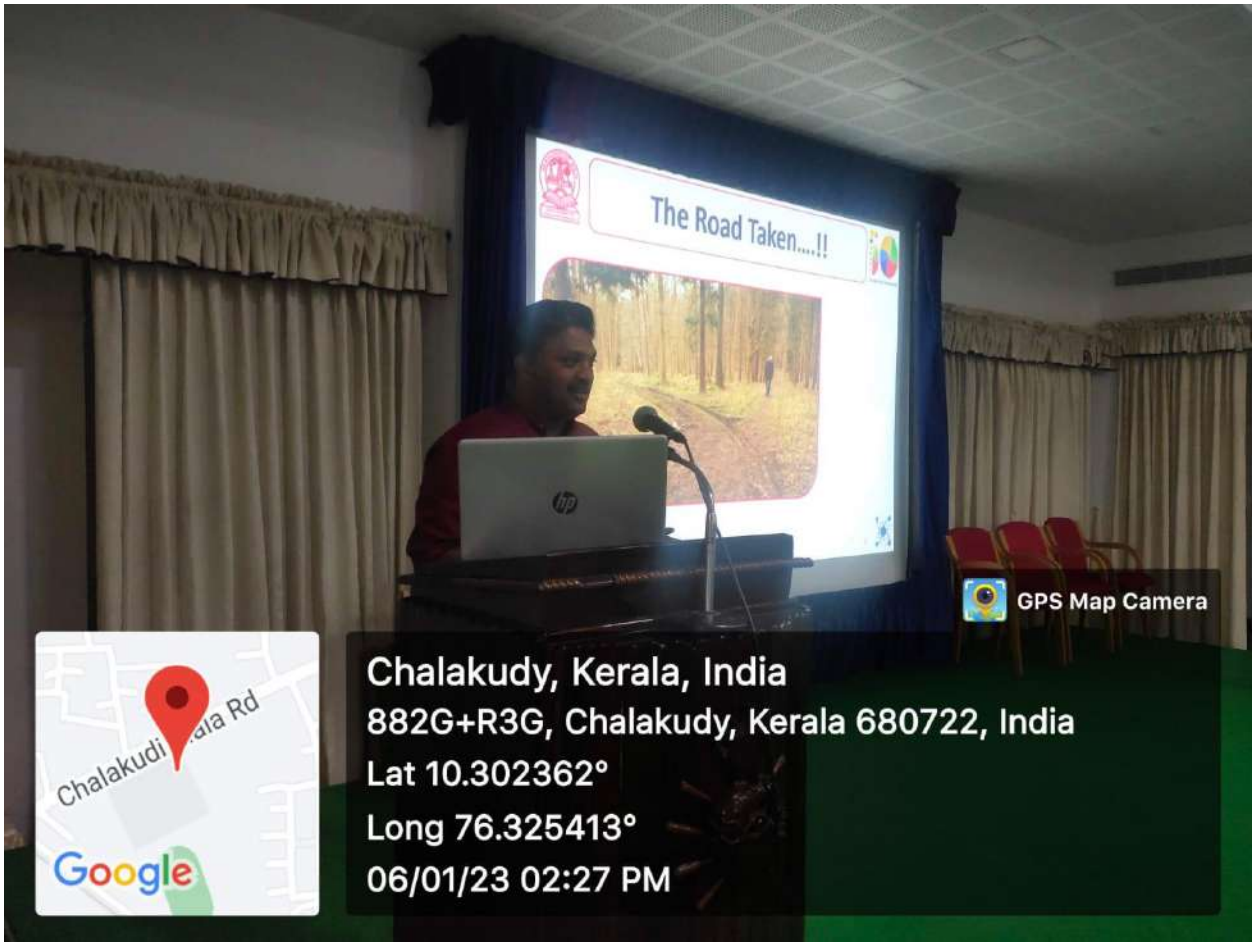
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WORLD SOIL DAY

(Date-5/12/2022)

The Department of Chemistry in collaboration with Agronomy Research Station, Chalakudy celebrated “World soil day- 2022”. A workshop was conducted on the topic “Know your soil” at ARS Chalakudy. Dr. Maria Daimy (AssistantProfessor, ARS Chalakudy) was the resource person of the programme. The programme was conducted on 05/12/2022 at 1.00 pm. (No of participants – 20)

The day aims to inform people about the importance of soil in supporting life and the role it plays in food security, water management, and climate regulation. The day highlights the threats of soil erosion, pollution, and degradation, emphasizing the need for conservation measures to protect and restore soils. And alsothis programme help to Increase awareness about the significance of soil in agriculture, ecology, and overall environmental health

WORSHOP SESSION

Guest Speaker Session: Dr. Maria Daimy discussed the importance of soil in sustainable agriculture and ecosystem health.Participants left the seminar equipped with a deeper understanding of soil health and its implications for sustainable agriculture. The event generated enthusiasm among attendees to implement eco-friendly practices in their agricultural and gardening endeavors. Organizers are considering follow-up workshops and outreach programs to continue promoting soil conservation and sustainable practices in the community.

Outcomes

Students gained information on soil composition, types, and sustainable soil management practices, fostering informed decision-making. Enhanced community involvement and participation in soil-related discussions, leading to a sense of responsibility for soil conservation. Workshops or hands-on activities that equip participants with practical skills, such as soil testing techniques or implementing soil conservation measures.

Conclusion

The event successfully raised awareness about the importance of soil conservation and inspired a collective commitment to adopting sustainable practices. As we reflect on World Soil Day, the seeds of knowledge planted during this celebration are poised to grow into ongoing initiatives that promote responsible soil management, community engagement, and a shared dedication to preserving our precious soil resources for future generations.

34

Date: 5/12/2022

WORLD SOIL DAY CELEBRATION - WORKSHOP AT AGRONOMY RESEARCH STATION - CHALAKUDY

Sl No	Name	Class	Signature
1	Drishya K	1st DC Chemistry	
2	Shiga P Sunilkumar	"	
3	Deepika K R	"	
4	Meghana Mohan	"	
5	Praveena K P	"	
6	Jesna Joby	IDC Chemistry	
7	Emil mariya	"	
8	Efsiya PJ	"	
9	Aswani	"	
10	Aleena	"	
11	Sreenandhana. A.S	"	
12	Souparnika TJ	"	
13	Bhavana. K	"	
14	Isha. P. Sunilkumar	"	
15	Nivedhitha P Sulihash	"	
16	Deepthi K	"	
17	Anagha sunil	"	
18	Suvarna K.S	"	
19	Abhirami K S	"	
20	Haridaya Subash	"	

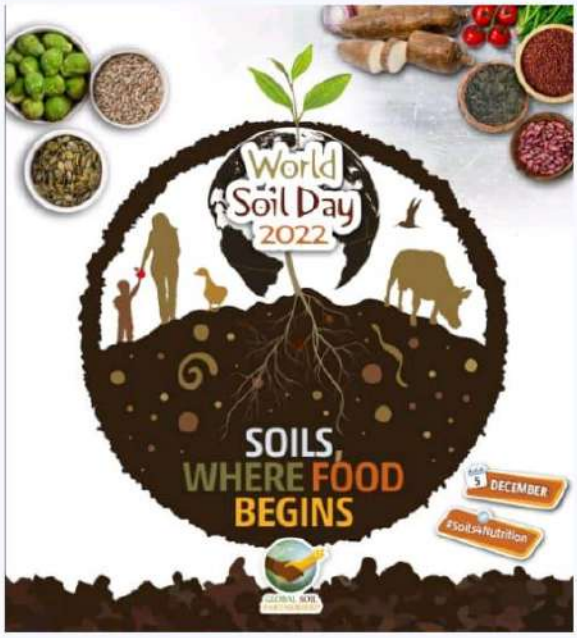
SACRED HEART COLLEGE, CHALAKUDY

Department of Chemistry

In Collaboration with
Agronomy Research Station (ARS), Chalakudy

Celebrating

World Soil Day - 2022



Workshop on

"Know Your Soil"

Date : 5/12 /2022 **Time : 1:00pm**

Resource Person : Dr. Maria Daimy
Assistant professor, ARS Chalakudy

Venue : ARS Chalakudy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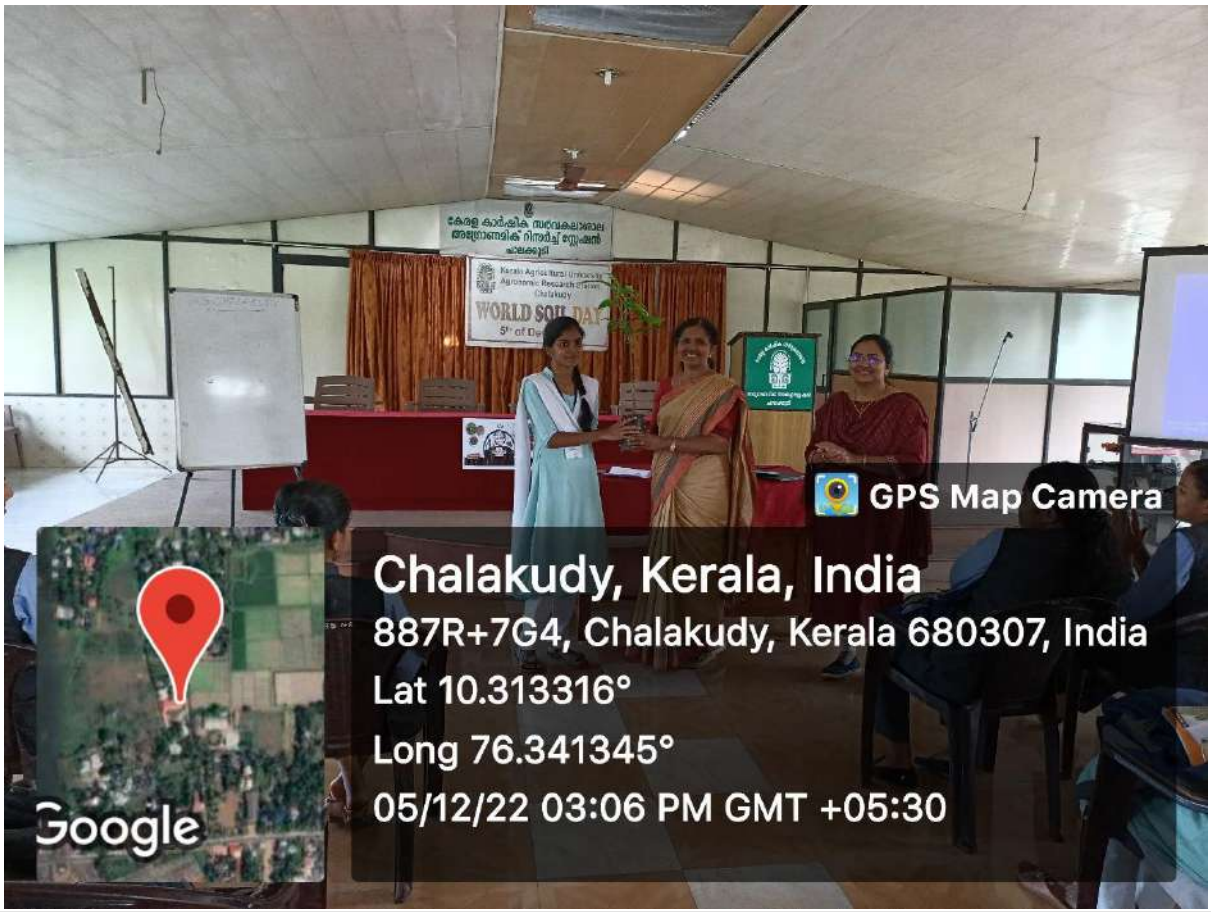
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International day for the elimination of violence against women' and 'National constitution day'

As a part of observation of 'International day for the elimination of violence against women' and 'National constitution day', the Department of Chemistry, Campus club in association with IQAC, Online platform, also organised a seminar on the topic "ELIMINATION OF VIOLENCE AGANST WOMEN AND CONSTITUTION IN INDIA" by Adv. Laya M.A. (Chalakudy bar association)- on 26/11/2022.(No of participants-30)

Seminar session aimed at fostering awareness on the critical issues of the elimination of violence against women and the constitutional safeguards in India. Adv. Laya mam provided in-depth insights into the constitutional provisions safeguarding women's rights and the importance of eliminating violence against women. The session delved into the legal framework in India, discussing key legislations and amendments designed to protect women from various forms of violence. seminar addressing the critical issues of the elimination of violence against women and the constitutional framework in India was conducted to raise awareness, foster dialogue, and explore legal avenues for combating gender-based violence. The seminar aimed to analyze the existing legal framework, discuss challenges, and propose strategies to strengthen the fight against violence targeting women.

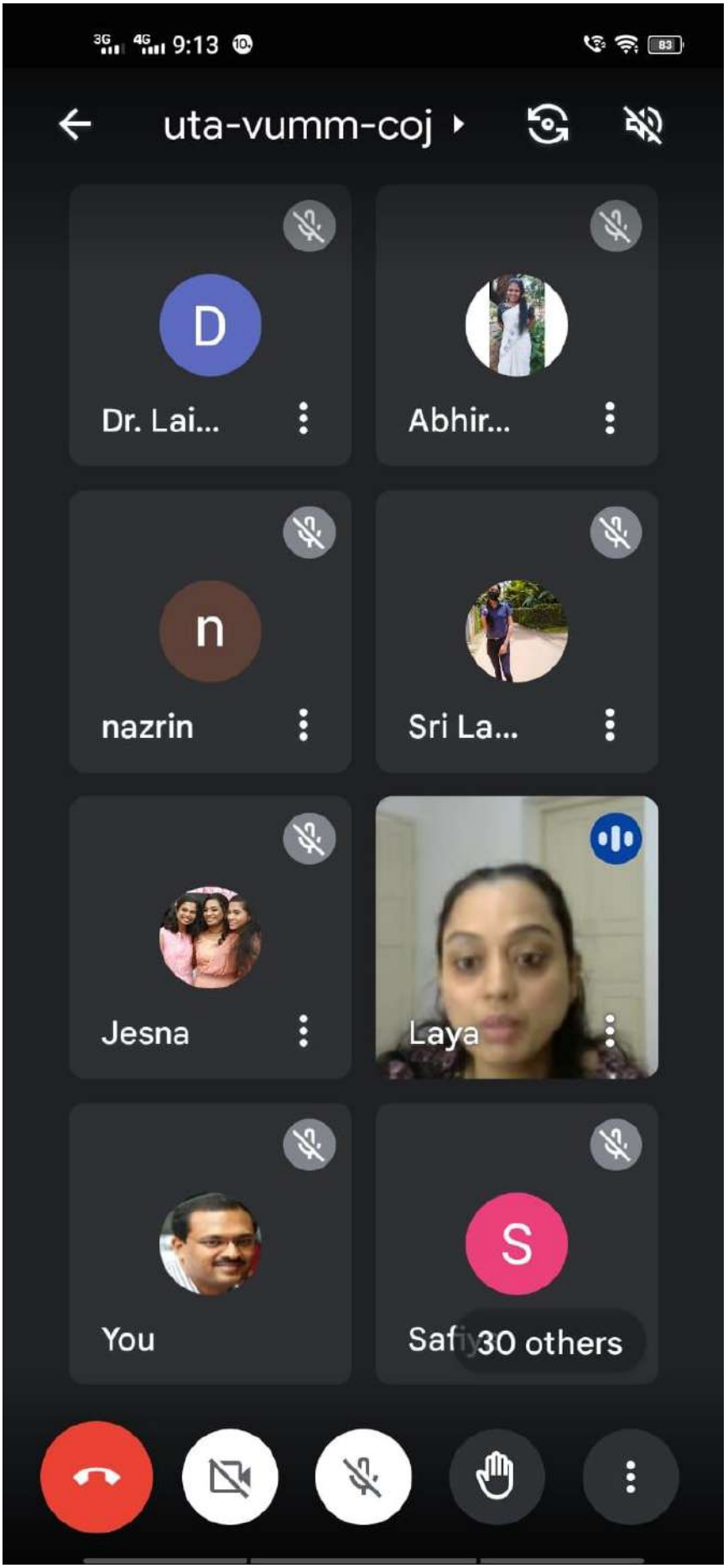
Outcomes

Students gained a comprehensive understanding of the constitutional safeguards and legal measures in place to address violence against women. The seminar empowered attendees with knowledge, enabling them to be advocates for change within their communities. Students were inspired to take proactive steps in supporting and advocating for the elimination of violence against women, aligning with the principles of the Constitution.

Conclusion

The seminar session successfully achieved its goals of education, awareness, and empowerment, serving as a catalyst for ongoing efforts to eliminate violence against women and promote gender equality within our college community and beyond. This programme also served as a platform for critical discussions, fostering a deeper understanding of the challenges and opportunities in the fight against gender-based violence.

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Water analysis programme
(2022-2023**)**

As an extension activity Department of chemistry conducted water analysis of various water samples collected in different region of Chalakudy at reasonable cost. Different parameters such as total hardness, E. Coli content, pH, concentration of different ions such as fluoride, chloride, phosphate etc. were analyzed in water samples of nearby area with the help of trained students.

Water analysis unit is one of the best practices of the department of Chemistry. Whole hearted support from the management is really a motivating factor to continue the water analysis unit. It is highly recommended to analyze the drinking water, water for agriculture, fish farming and all other purposes before its actual implementation/usage. Periodical testing of the purity of water samples is very much essential to confirm its quality. We have started the water analysis unit with the intention of helping the nearby society. We have overwhelming responses from the various sections of the society. Several samples came to our laboratory for testing during 2022-23. We purchased a new water quality analyzer on 2nd February, 2022 when our old unit was damaged in flood on 15th August, 2018. The new instrument was purchased by utilizing the DBT- STAR College funding scheme. We have repaired the old water analyzer instrument and are using a micro controller based SYSTRONICS brand water analyser unit. The main advantage of this instrument is its portability and carry anywhere for spot analysis of water samples. We are able to analyse 8 various water quality parameters using this instrument. It includes pH, conductivity, TDS, salinity, dissolved oxygen, temperature, color and turbidity. It also gives us an advantage to carry out students UG and PG projects of various water samples before and after the purification process. Water quality testing kits (NICE Chemicals brand) as well as titration methods are also used to check the purity of water including E. Coli. bacteria. We normally test 17 general water quality parameters, which are sufficient to understand the purity of that water sample. We used to make remarks when we observed any parameter exceeding the permissible limit or presence of bacterias like E. Coli.

The programme aimed to provide a crucial service to the society by analyzing water samples from various sources in the nearby area. The primary objectives were to identify different ions present in the water samples, assess water quality, and recommend remedial water treatment measures to improve the community's access to safe and clean water. The program consisted of two phases: water sample collection and comprehensive water analysis, followed by recommendation for water treatment.

Coordinator of the programme: Dr. Santhosh Paul, Assistant Professor, Department of Chemistry

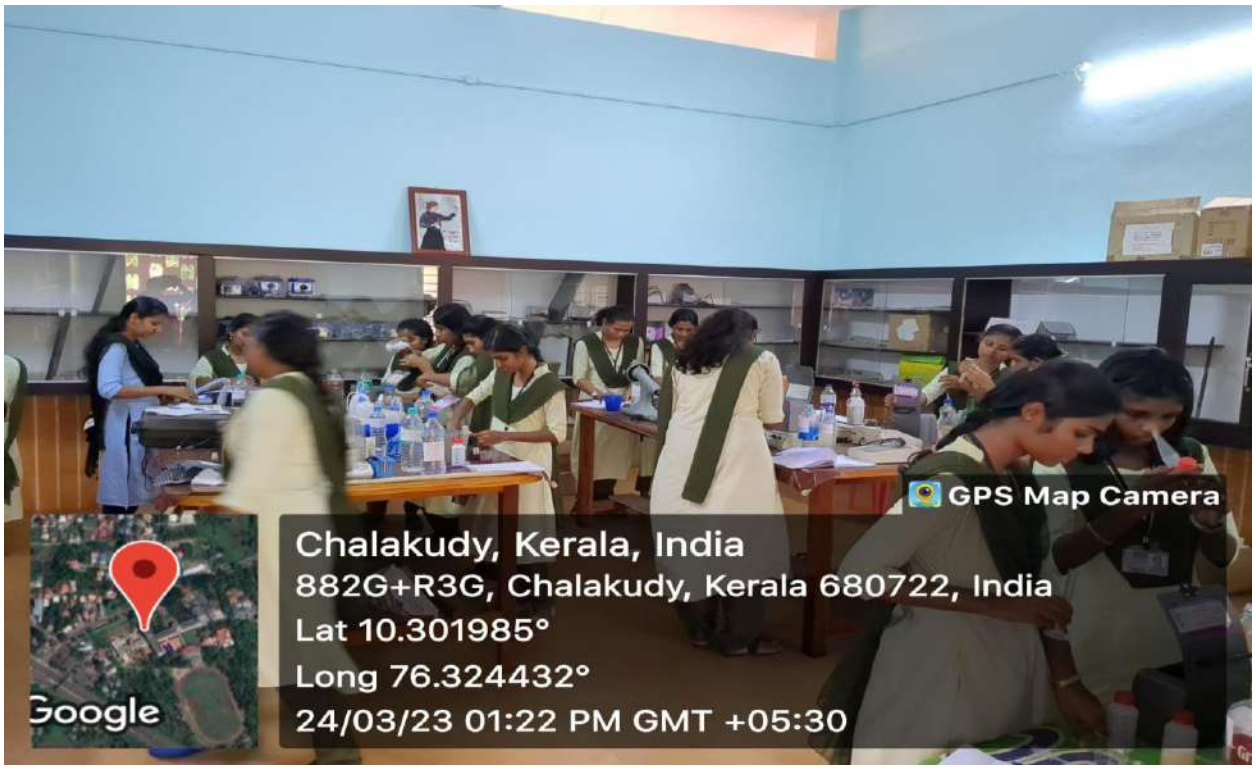
23 first and second year B. Sc. chemistry students actively participated in this analysis and seventy six water samples were analyzed during this year. The list of students participated in this activity is given below.

No.	Name	Class
1.	Abhirami K S	III B. Sc. Chemistry
2.	HridayaSubash	III B. Sc. Chemistry
3.	Isha P Sunilkumar	III B. Sc. Chemistry
4.	Sreenandhana A S	III B. Sc. Chemistry
5.	Suvarna K S	III B. Sc. Chemistry
6.	Aleena Wilson	III B. Sc. Chemistry
7.	Anagha Sunil	III B. Sc. Chemistry
8.	AswaniJibi	III B. Sc. Chemistry
9.	Bhavana K	III B. Sc. Chemistry
10.	Deepthi K	III B. Sc. Chemistry
11.	Efriya P J	III B. Sc. Chemistry
12.	Emil Maria	III B. Sc. Chemistry
13.	JesnaJofy	III B. Sc. Chemistry
14.	Nivedhitha P Subhash	III B. Sc. Chemistry
15.	Souparnnika T J	III B. Sc. Chemistry
16.	AyshaRafeek	II B. Sc. Chemistry
17.	Deepika K R	II B. Sc. Chemistry
18.	Meghana Mohan	II B. Sc. Chemistry
19.	Nourin K P	II B. Sc. Chemistry
20.	Shiga P Sunilkumar	II B. Sc. Chemistry
21.	AmeeraNujain V N	II B. Sc. Chemistry
22.	Praveena K P	II B. Sc. Chemistry
23.	Drishya K	II B. Sc. Chemistry

Details of the water analysis conducted by the Department of Chemistry

Year	Programme coordinator	No of water samples analyzed	Number of students participated
2016-2017	Dr. Santhosh Paul	76	23

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Sacred Heart College Chalakudy

Department of Chemistry

Railway station Road

Chalakudy, Thrissur–680307

E-mail: chemistry@sacredheartcollege.ac.in

Water Quality Analysis

Date of Collection: 23/03/2023 **Date of testing: 23/03/2023**

Name: Alex George, 9633312500

Source: well water

Ref: IS: 10500

No.	Parameters	Unit	Desirable limit	Permissible limit	Observed value
1	Ammonium	ppm	0.2	0.5	Nil
2	P^H	6.5–8.5			6.03
3	Calcium Hardness	ppm	75	200	15
4	Total hardness (in terms of $CaCO_3$)	ppm	300 - 600		20
5	Chloride	ppm	250	1000	160
6	Fluoride	ppm	1	1.5	Nil
7	Iron	ppm	0.3	1	Nil
8	Residual chlorine	ppm	0.2	1	Nil
9	Nitrate	ppm	45		Nil
10	Nitrite	ppm	0.5	1	Nil
11	Phosphate	ppm	5	5	0.5

Department of Chemistry
Sacred Heart College
Chalakudy

Technician/in-charge

WORLD OZONE DAY

(Date: 26/9/2023)

The Department of Chemistry observed World Ozone Day on 26/9/2022 at college auditorium.As a part of observation, the Department of Chemistry conducted an E-poster & quiz competition. (Number of participants -80).

The aim of this programme wasencourage individuals, to adopt practices and technologies that do not harm the ozone layer. This includes the use of ozone-friendly products and alternatives to ozone-depleting substances. Celebration of Ozone Day serves as a platform to educate people about the importance of the ozone layer,and promote ongoing efforts to protect the ozone layer and the Earth's environment.

PROGRAMME SESSION

Awareness class: Provide a brief overview of the key activities and outcomes of the Ozone Day observation.And also explained the significance of Ozone Day and the objectives of the activities organized.

Quiz competition: The event aimed to enhance awareness among participants about the importance of protecting the ozone layer and promote sustainable practices. Quiz Competition successfully engaged participants, promoted environmental awareness, and contributed to the broader goal of protecting the ozone layer. The positive response from participants and the educational impact demonstrate the effectiveness of using quiz competitions as a means of environmental education.

E-poster competition: The E-Poster Competition aimed to engage participants in visually communicating the importance of ozone layer preservation, the impact of ozone-depleting substances, and the role of collective action. The E-Poster Competition successfully engaged participants in creatively conveying the significance of ozone layer protection. It not only showcased the artistic talent of students but also contributed to raising awareness about environmental issues.

Outcomes

This programmeyields several positive outcomes, enriching the educational experience and fostering a sense of environmental responsibility among students, and staff. These events could enhance students understanding of environmental issues, specifically the importance of the ozone layer.

Conclusion

The ozone day celebration revolves around raising awareness, fostering environmental responsibility, and engaging the college community, and not only contributes to the protection of the ozone layer but also fosters a culture of environmental responsibility, education, and skill development. The impact extends far beyond the event, leaving a positive imprint on individuals and the college community as a whole.

OZONE DAY CELEBRATION

26/09/2022

Sl No	Name	Department	Signature.
1	Gaeshma Neha James	IInd Bcom CA	
2	Siya Santhosh Kavya M.R	Ist Msc Psychology	
3.	Adhinandha M Nair Jeril	Ist Bsc Physics	
4.	Irfana Sherin Ameesha	IInd BA economics	
5.	Nandhana. P. Nair Kalathinkal Sojiya Joy	IIIrd Bsc Zoology	
6	Jisa Paul Seethal M.S	IIIrd BA History	
7	Indulekha K.B Aleena Paul	Ist Bsc Chemistry	
8.	Efriya Hridhaya	IInd Bsc Chemistry	
9.	Srilakshmi. A.S Krishnapriya Unnikrishnan	IInd Msc Chemistry	
10	Athulya.C.B Jisa Wilson	2st B.Com. Finance	

Sl No	Name	Department	Signature
11	Abia Cleetus	III Physics	Abia
14	Ayisha Farheen	III Physics	Ayisha
12	Rajeswari GL	I English	
1	Athmika	I English	
13	Sreelakshmi A.S	II M.Sc chemistry	
	Krishnapriya unnikrishnan	II M.Sc chemistry	
19	Gopika Gopinath	II BA History	Gopika
	Maaya A.R	II BA- History	
16	Mariya Xavy	II BA Economics	Mariya
	Sandra K.J	II BA Economics	Sandra
17	Sana Fathima mg	IInd B.com finance	
	Mariya Doris	" "	
12	Sayana. C.S	I B.A economics	
	Gopika Thilakan	I B.A economics	Gopika
15	Anna Adheena Shajan	I BA History	Adhee
	Midhuna Varghese	I BA History	Midhu
11	Ashathy jayakumar	IIIrd Bcom CA	
	Jisna Jose	IIIrd Bcom CA	
10	Sneha Joy	II B.com Finance	
	Anina Babu	II B.com finance	


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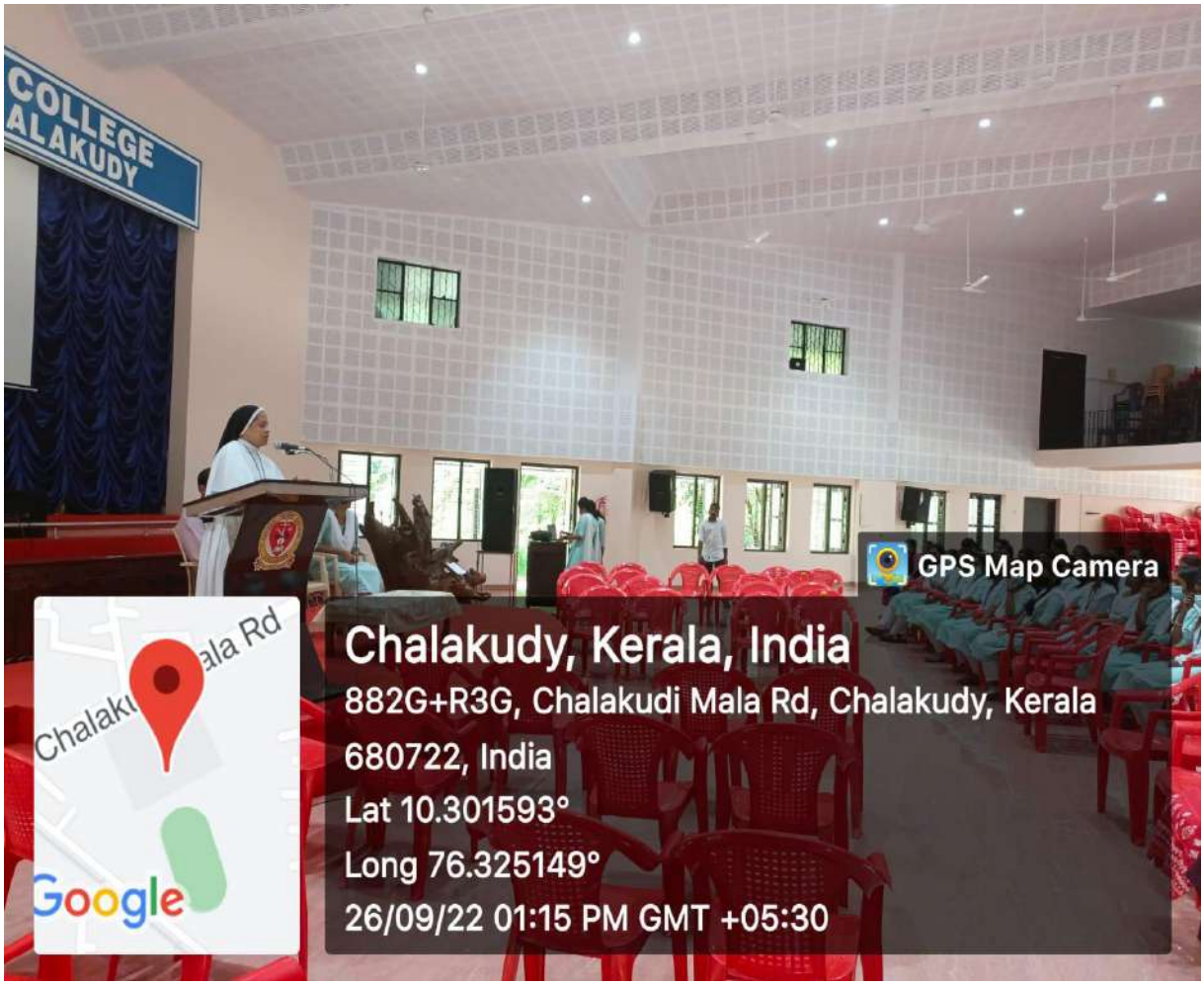
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WORLD WATER DAY

(Date-22/3/2022)

The Seminar on Water Conservation organized by the Department of Chemistry at Sacred Heart College, Chalakudy, served as a significant platform for raising awareness about the pressing need for water conservation efforts. S.P. Ravi, representing the Chalakudy River Protection Forum, delivered an enlightening session highlighting the importance of conserving water resources for sustainable development.S.P. Ravi, a prominent personality for environmental conservation, brought forth expert insights into the challenges facing water resources, particularly the Chalakudy River. His profound understanding of local environmental issues and dedication to river protection resonated throughout the seminar, inspiring attendees to take proactive measures towards water conservation.The seminar shed light on the various threats posed to water resources, including pollution, deforestation, and unsustainable water usage practices. Through compelling anecdotes and data-driven presentations, S.P. Ravi underscored the urgency of addressing these challenges to safeguard the ecological integrity of the Chalakudy River and ensure water security for future generations.

A pivotal moment of the seminar was the call to action for attendees to pledge their commitment to water conservation. Recognizing the critical role of individuals in effecting change, S.P. Ravi encouraged participants to take a water pledge, symbolizing their dedication to adopting water-saving practices in their daily lives and advocating for sustainable water management practices in their communities.The seminar facilitated an interactive dialogue between the speaker and attendees, fostering a collaborative atmosphere conducive to knowledge exchange and engagement. Participants had the opportunity to pose questions, share insights, and express their concerns regarding water conservation efforts, thereby enriching the collective learning experience.

The Seminar on Water Conservation by S.P. Ravi, hosted by the Department of Chemistry at Sacred Heart College, Chalakudy, served as a catalyst for raising awareness and mobilizing action towards water conservation. The impassioned plea for environmental stewardship resonated deeply with attendees, culminating in a collective commitment to prioritize water conservation efforts.

	Name	Class	Signature
1.	Abhirami K.S	IInd DC chemistry	Abhirami
2	Haridya Subash.	"	Haridya
3.	Anagha sunil	IInd DC chemistry	Anagha
4	Sreenandhana A.S.	IInd DC chemistry	Sreenandhana
5	Bhavana K	"	Bhavana
6	Nivedhitha P. Subash	" "	Nivedhitha
7	Deepthi K	" "	Deepthi
8	Isha P. Sunilkumar	" "	Isha
9	Aleena wilson	" "	Aleena
10	Fomil Mania	"	Fomil
11	Efsiya PJ	"	Efsiya
12	Jesna JOFY	"	Jesna
13	Suvarna K.S	"	Suvarna
14.	Souparnnika TJ	"	Souparnnika




WORLD
WATER
DAY

Azadi Ka Amrith Mahotsav

(Date: 11/8/2022)

The Signature Campaign, 'Swathanthryathinte Kaiyoppu,' was organized by the Department of Chemistry at the College Auditorium on 11/8/2022. It was aimed to raise awareness and garner support for the cause of freedom and independence. The Department initiated this Campaign to commemorate the essence of freedom and to instill a sense of patriotism among the college community. The campaign wasinaugurated by the college Principal, Dr.Sr.Irene.Dedicated booths were set up in strategic locations within the college premises. Volunteers provided information about the campaign and encouraged individuals to sign in support of the cause.Short sessions were conducted to educate participants about the historical context of freedom and its relevance in contemporary times.Audio-visual aids, presentations, and interactive discussions were utilized.The Signature Campaign witnessed active participation from students, faculty, and staff. The diverse representation demonstrated a unified commitment to the cause of freedom.A significant number of signatures were collected, reflecting widespread support for the campaign.(Number of participants-14)

Objectives of the Campaign:

To commemorate the spirit of freedom and independence.
To create awareness about the significance of freedom in our lives.
To encourage active participation and engagement from the college community.
To collect signatures as a symbolic gesture of support for the cause.

The 'Swathanthryathinte Kaiyoppu' Signature Campaign organized by the Department of Chemistry successfully achieved its objectives of commemorating freedom, creating awareness, and fostering a sense of unity. The collected signatures stand as a testament to the collective commitment to the values of freedom and independence.Building on the success of this campaign, future initiatives could explore additional avenues for community engagement and collaboration with other departments to amplify the impact.

	Name	Class	Signature
1.	Abhirami K.S	IInd DC chemistry	
2	Haidya Subash.	"	
3.	Anagha sunil	IInd DC chemistry	
4	Sreenandhana A.S.	IInd DC chemistry	
5	Bhavana. K	" "	
6	Nivedhitha P. Subash	" "	
7	Deepthi. K	" "	
8	Isha. P. Sunilkumar	" "	
9	Aleena wilson	" "	
10	Fimil Mama	"	
11	Efsiya. PJ	"	
12	Jesna. JOFY	"	
13	Suvarna K.S	"	
14.	Souparnnika T.J	"	


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Torchlight Procession and Cycle Rally

As part celebrations of Azadi Ka Amrith Mahotsav, Torchlight Procession and Cycle Rally was organized by the Department of Chemistry and Physical Educationon 12/8/2022. It marked a significant event in the nationwide celebration of Azadi Ka Amrith Mahotsav. The procession, starting from Sacred Heart College Chalakudy and culminating at the Railway Station, aimed to foster a spirit of patriotism and active participation among the college community.This event served as a symbolic gesture to commemorate the 75th year of India's independence. The event commenced with a Torchlight Procession from Sacred Heart College Chalakudy. A Cycle Rally followed the Torchlight Procession, with participants riding bicycles adorned with national flags and patriotic decorations. Principal Dr. Sr. Irene inaugurated the programme. ITI ward councilor Smt. Bindu Sasikumar felicitated the gathering and delivered the Independence Day message. Cycle rally was flagged off by the principal. Smt. Bindu Sasikumar handed over the flame to the student representative and the students' proceeds to the railway station by spreading the message of unity. Station master addressed the Independence Day procession.The event garnered significant participation from students, faculty, and staff. The diverse assembly of participants reflected a unified commitment to celebrating the spirit of freedom and promoting an active lifestyle. The Torchlight Procession and Cycle Rally successfully engaged the local community, drawing attention to the celebrations of Azadi Ka Amrith Mahotsav. The Cycle Rally promoted physical fitness and emphasized the importance of an active lifestyle. (Number of participants -31)

Objectives:

- To instill a sense of patriotism and pride among the college community.
- To promote a healthy and active lifestyle through the Cycle Rally.
- To celebrate the historical significance of Azadi Ka Amrith Mahotsav.

The Torchlight Procession and Cycle Rally organized by the Department of Chemistry and Physical Education were impactful in fostering a sense of patriotism, community engagement, and promoting physical well-being. The event not only celebrated the historical significance of Azadi Ka Amrith Mahotsav but also encouraged an active and healthy lifestyle.The success of the Torchlight Procession and Cycle Rally is attributed to the collaborative efforts of the Department of Chemistry and Physical Education, as well as the enthusiastic participation of the college community.

Sl No.	Name	Department	Signature
1	Jyothilakshmi. A.S	IIIrd Bsc Chemistry	
2.	ANGEL FEBA	IIIrd Bsc chemistry	
3.	Hiba.U	IIIrd Bsc chemistry	
4.	Shahanaz fathima.M.M	IIIrd Bsc chemistry	
5	Amrutha T.K	IIIrd BSc Chemistry	
6	Uthara. T. B	"	
7	Sneha shaju	"	
8	Aiswarya. P.R	"	
9	Shanibha. P	Ist sem MSc chemistry	
10.	Aiswarya Mariya	Msc chemistry (2nd)	
11.	Billy Thomas	"	
12.	Aswathy. S.	"	
13.	Ansamol. K.shajan	"	
14.	Nivedhya Rajeesh.	"	
15.	Mayadevi	"	
16.	Jeena chandran.	"	
17.	Akhila M.S.	"	
18.	Meera K.V	"	
19.	Keishnapriya Unnikrishnan.	"	
20.	Sreelekshmi A.S.	Msc chemistry (2nd yr)	
21.	Ef		
22.	Maniya Kavy	IIIrd BA Economics	
23.	Sandra K.J.	IIIrd BA Economics	
24.	Gopika Gopinath	IInd BA History.	
25.	Maaya AR	IInd BA History	
26	Deepthi.K	IInd Bsc chemistry	
27	Aysha Rafeek	Bsc Chemistry (Ist yr)	
28	Shiga P Sunilkumar	BSc Chemistry " IInd	
29.	Isha. P. Sunilkumar	" "	
30.	Nivedhitha p subhash	" "	
31	Emil maria	" "	


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INTERNATIONAL DAY FOR THE ELIMINATION OF VIOLENCE AGAINST WOMEN

(Date:25/11/2022)

In connection with observation of International day for the elimination of violence against women, the Department of Chemistry and physical education conducted a Martial arts training class by Arya Surendran (Karate trainer) for students at auditorium. (Number of participant - 31)

On the occasion of this day, a transformative martial arts training event was conducted to empower women and promote self-defense skills as a means to combat violence. The event aimed to raise awareness about gender-based violence and provide practical tools for women to protect themselves.

The primary objective of the martial arts training was to equip women with essential self-defense techniques, fostering a sense of confidence, strength, and resilience. By engaging participants in martial arts, the event aimed to empower women both mentally and physically, creating a supportive environment for personal growth and community solidarity.

Skilled martial arts instructors led hands-on workshops, introducing participants to fundamental techniques such as striking, blocking, and evasion. These instructors emphasized the importance of mental preparedness and situational awareness.Complementing the physical training, inspirational talks were given by accomplished women in martial arts, sharing their personal journeys and highlighting the transformative impact of martial arts on their lives. These talks aimed to motivate participants to break free from societal constraints and stereotypes.The martial arts training event received positive feedback from participants who expressed increased confidence and empowerment. Many participants indicated a desire to continue martial arts training and contribute to the broader movement against violence. Organizers are considering the possibility of regular self-defense classes and awareness campaigns to sustain the momentum generated by the event.

Conclusion: The International Day for the Elimination of Violence against Women martial arts training event successfully combined physical empowerment with community building, contributing to a culture of resilience and solidarity. Through these initiatives, it is hoped that more women will be inspired to take control of their safety, fostering a world where violence against women becomes an intolerable relic of the past.

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6	Uthara.T.B	"	
7	Sneha shaju	"	
8	Aiswarya.P.R	"	
9	Sruthi.P	1st sem MSc chemistry	
10.	Aiswarya Mallya	Msc. chemistry (2nd)	
11.	Billy Thomas	"	
12.	Aswathy.S.	"	
13.	Ansamol.K.shajan	"	
14.	Nivedhya Rajeesh.	"	
15.	Mayadevi	"	
16.	Jeena Chandran.	"	
17.	Akhila M.S.	"	
18.	Meera K.V	"	
19.	Krishnapriya Unnikrishnan.	"	
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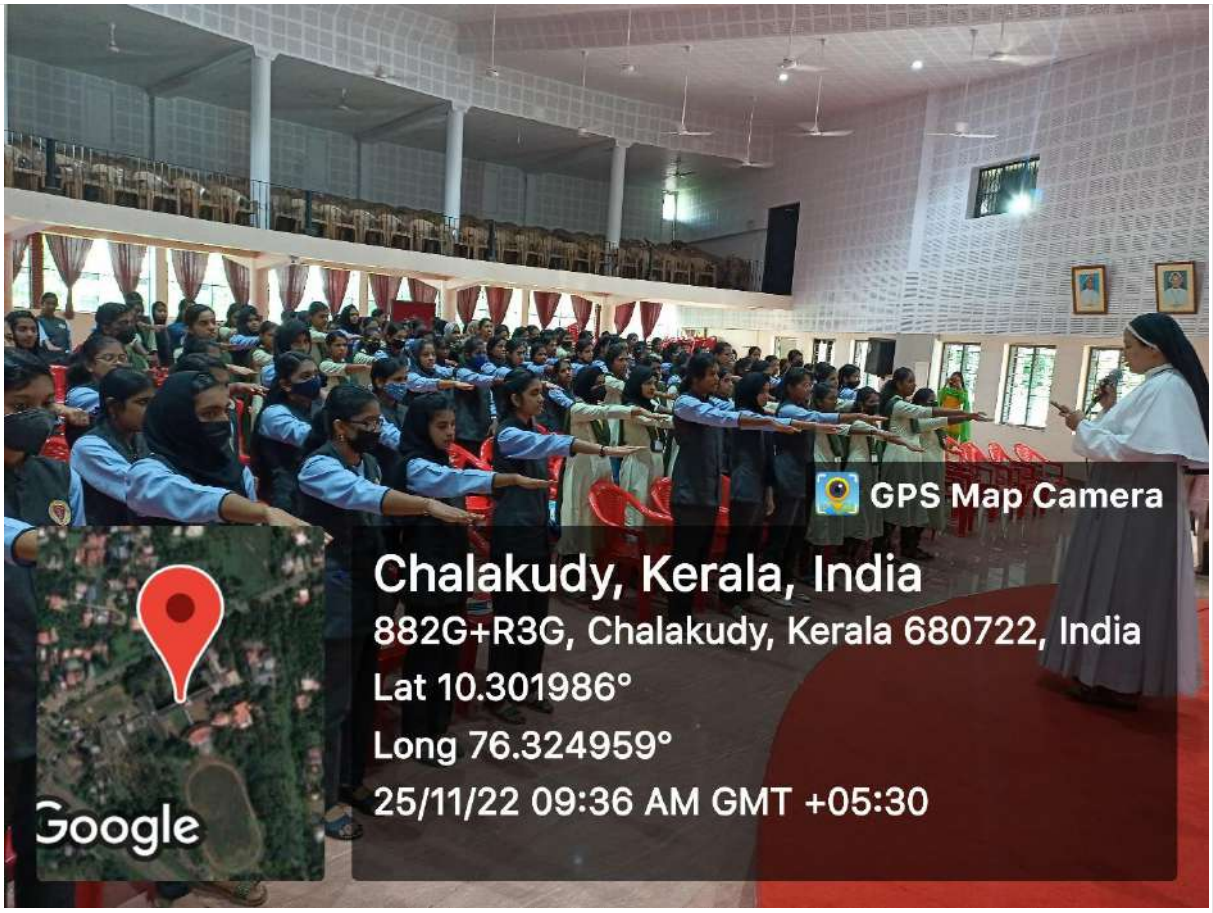
30.	Nivedhitha p subhash	" "	
31	Emil maria	" "	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Student seminar presentation series - II (4/11/2022)

Student seminar presentation series - II, Organized by Department of Chemistry & Eureka club, Venue: II B. Sc. Chemistry.

The Department of Chemistry in association with Eureka club started the student seminar presentation series. Ayisha from I B. Sc. Chemistry presented the seminar on the topic "Chemistry of Cake". Preparing and delivering a presentation requires students to think critically about their topic, formulate arguments, and respond to questions effectively. Presenting allows students to connect with peers, faculty, and professionals in their field, expanding their network and potentially opening doors to future collaborations or opportunities. Presentations often include Q&A sessions, providing students with valuable feedback that can contribute to their academic growth and the refinement of their research or ideas.

Ayisha's seminar on the "Chemistry of Cake" provided a comprehensive exploration of the scientific principles underlying the baking process. The presentation aimed to unravel the intricate chemical reactions and interactions that contribute to the delightful and varied textures of cakes.

Ingredients and their Roles: Ayisha delved into the chemistry of common cake ingredients such as flour, sugar, eggs, and leavening agents. She explained how each component plays a crucial role in determining the cake's structure, texture, and taste.

Leavening Agents: The seminar highlighted the importance of leavening agents like baking powder and baking soda in creating a light and airy cake. Ayisha elucidated the chemical reactions that occur during the baking process, leading to the expansion of the batter.

Maillard Reaction: Ayisha explored the Maillard reaction, a complex chemical process that occurs when cakes are baked. This reaction contributes to the browning of the crust and imparts distinct flavors to the cake.

Emulsification and Homogenization: The chemistry behind emulsification and homogenization in cake batters was discussed. Ayisha explained how these processes contribute to the even distribution of fat, resulting in a moist and tender crumb.

Role of Acids and Alkaline: The seminar highlighted the significance of balancing acidic and alkaline ingredients in cake recipes. Ayisha elucidated how these components influence the cake's pH, affecting its overall structure and taste.

Ayisha's seminar on the "Chemistry of Cake" provided a valuable insight into the scientific intricacies of baking. Attendees gained a deeper understanding of how various ingredients and processes interact to create the delicious end product. The seminar successfully bridged the gap between culinary artistry and scientific principles, making it an engaging and informative session for all participants.

Student seminar presentation series – I (Date: 2/11/2022)

Student seminar presentation series - I, Organized by Department of Chemistry & Eureka club, Venue: II B. Sc. Chemistry.

The Department of Chemistry in association with Eureka club started the student seminar presentation series. Ameera Nujain from I B. Sc. Chemistry presented the first seminar on the topic " The chemistry of different colours of blood". Student presentation series provide a platform for students to enhance essential skills such as public speaking, communication, and presentation design. Blood color in animals is primarily influenced by the presence and type of respiratory pigments. In vertebrates, hemoglobin is the common respiratory pigment. Blood appears red when oxygenated and blue or purple when deoxygenated. However, some animals have different pigments.

The aim was to understand the diversity in blood colors and the underlying chemistry that contributes to these variations.

Hemoglobin and Vertebrates:Explored the role of hemoglobin in vertebrate blood.Discussed how oxygenation influences the red color in oxygenated blood.Highlighted the shift to a bluish or purplish hue in deoxygenated blood.

Copper-Based Hemocyanin:Examined the unique case of animals like horseshoe crabs that possess blue blood due to hemocyanin.Delved into the chemical properties of hemocyanin and its oxygen-binding characteristics.

Variations in Invertebrates:Explored diverse respiratory pigments in invertebrates, such as chlorocruorin in certain annelids and hemerythrin in brachiopods.Analyzed how these pigments contribute to a range of blood colors across different species.

Adaptations and Evolutionary Significance:Investigated the evolutionary advantages and adaptations associated with different blood colors in various environments.Explored how these adaptations contribute to the survival and ecological niche of different species.

*Chemistry Behind the Colors:*Detailed discussions on the molecular structures of different respiratory pigments.Emphasized the role of metals (iron, copper) in determining the color and oxygen-binding capabilities of these pigments.

The seminar provided a valuable platform for researchers, biologists, and enthusiasts to gain insights into the diverse world of blood colors in animals. Understanding the chemistry behind these variations not only enhances our knowledge of evolutionary adaptations but also sheds light on the intricate mechanisms that govern life processes across the animal kingdom.

Students have the opportunity to share their research, ideas, and perspectives, fostering a culture of knowledge exchange within the academic community.Presenting in front of an audience helps build confidence, a crucial skill that extends beyond academia into various aspects of professional life.

SACRED HEART COLLEGE, CHALAKUDY

Department of Chemistry

STUDENT SEMINAR SERIES - 1





Topic : The CHEMISTRY of different Colours of Blood

By Ameera Nujain V N

Date : 02/11/2022

Time : 1 pm

Venue: II BSc Chemistry

Student seminar presentation series - I (8/11/2022)

Student seminar presentation series - I, Organized by Department of Chemistry & Eureka club, Venue: II B. Sc. Chemistry.

The Department of Chemistry in association with Eureka club started the student seminar presentation series. Aparna Raj from I B. Sc. Chemistry presented the seminar on the topic "COVID-19 :Why Chemistry Matters".The COVID-19 pandemic has prompted extensive research into the chemistry of the SARS-CoV-2 virus, aiming to understand its molecular structure and interactions. Aparna Raj's work delves into this crucial aspect, shedding light on the chemical intricacies that govern the virus's behavior. Student presentation series offer a platform for students to showcase their academic achievements, research findings, or innovative projects to a wider audience.The ability to present and communicate effectively is a valuable skill in many professions. Student presentation series prepare students for future workplace demands.

The seminar included the points:

Molecular Structure: Aparna Raj's research likely explores the detailed molecular architecture of SARS-CoV-2, emphasizing the spike protein's role in viral entry. Understanding the virus's structural components is pivotal for developing targeted therapeutic interventions.

Drug Development: Chemistry plays a vital role in the development of antiviral drugs. Aparna Raj may discuss various chemical compounds under scrutiny for their potential to inhibit viral replication or disrupt key processes within the virus. This research is pivotal in the quest for effective COVID-19 treatments.

Vaccine Design: The chemistry of vaccine development involves the study of antigens and the immune response. Aparna Raj's work might delve into the molecular design of COVID-19 vaccines, exploring how these vaccines elicit protective immune responses while minimizing adverse effects.

Molecular Interactions: The intricate dance of molecular interactions between the virus and host cells is a central theme in COVID-19 research. Aparna Raj's contributions may involve unraveling these interactions at the atomic and molecular levels, providing insights into potential drug targets.

Therapeutic Approaches: Chemistry-driven insights guide the development of therapeutics, including monoclonal antibodies and antiviral agents. Aparna Raj's research likely contributes to understanding the chemical mechanisms behind these therapeutic approaches and their potential applications in clinical settings.

Aparna Raj's work on the chemistry of COVID-19 stands at the forefront of scientific efforts to combat the pandemic. By deciphering the molecular intricacies of the virus, this research

contributes crucial knowledge that informs the development of therapeutic strategies and advances our understanding of viral pathogenesis.

Student seminar presentation series - I (28/11/2022)

Student seminar presentation series - I, Organized by Department of Chemistry & Eureka club, Venue: II B. Sc. Chemistry.

The Department of Chemistry in association with Eureka club started the student seminar presentation series. Deepika from I B. Sc. Chemistry presented the seminar on the topic "Global Warming".Deepika conducted an insightful seminar on the pressing issue of global warming, addressing its causes, consequences, and potential solutions. The seminar aimed to raise awareness and encourage proactive measures to mitigate the impact of climate change.

Key Points Discussed included were:

Causes of Global Warming:Deepika highlighted the primary contributors to global warming, including greenhouse gas emissions from human activities such as burning fossil fuels, deforestation, and industrial processes.

*Consequences:*The seminar delved into the severe consequences of global warming, emphasizing rising temperatures, melting ice caps, sea level rise, extreme weather events, and threats to biodiversity.

Impact on Ecosystems:Deepika emphasized the cascading effects of global warming on ecosystems, discussing how changes in temperature patterns disrupt habitats, endanger species, and alter natural balance.

Role of Human Actions:The speaker underscored the role of individual and collective human actions in exacerbating climate change and highlighted the need for sustainable practices, renewable energy sources, and responsible consumption.

International Collaboration:The importance of global cooperation in addressing climate change was emphasized, with Deepika discussing international agreements, initiatives, and the role of organizations in fostering a united front against global warming.

Mitigation Strategies:Practical solutions were explored, including renewable energy adoption, afforestation, sustainable agriculture, and eco-friendly lifestyle choices. Deepika encouraged the audience to take active roles in reducing their carbon footprint.

Adaptation Measures:The seminar also touched upon adaptation strategies for communities to cope with the inevitable impacts of climate change, emphasizing the importance of resilient infrastructure and community preparedness.

Deepika's seminar on global warming served as a comprehensive and engaging platform to understand the complexities of climate change. By combining scientific insights with practical

solutions, she inspired the audience to contribute towards a sustainable future, stressing the urgency of collective action to combat global warming.

Student seminar presentation series - I (29/11/2022)

Student seminar presentation series - I, Organized by Department of Chemistry & Eureka club, Venue: II B. Sc. Chemistry.

The Department of Chemistry in association with Eureka club started the student seminar presentation series. Meghna Rajan from I B. Sc. Chemistry presented the seminar on the topic "Acid Rain". These series promote a sense of community within educational institutions by bringing students and faculty together to share ideas and engage in intellectual discussions Knowing they might present their work encourages students to engage in research and explore topics in-depth, contributing to a vibrant academic environment.

Meghna Rajan delivered an insightful seminar on the topic of acid rain, shedding light on its causes, effects, and potential solutions. The presentation aimed to raise awareness about the environmental impact of acid rain and encourage proactive measures to mitigate its consequences.

Causes of Acid Rain: Meghna highlighted the primary causes of acid rain, emphasizing the role of human activities such as burning fossil fuels and industrial emissions. The release of sulfur dioxide (SO2) and nitrogen oxides (NOx) into the atmosphere contributes to the formation of acid rain.

Effects on the Environment: The seminar delved into the detrimental effects of acid rain on the environment. Meghna discussed how acid rain can harm aquatic ecosystems, damage soil quality, and negatively impact vegetation. The detrimental effects on human health were also explored, emphasizing the need for collective efforts to address this environmental issue.

Case Studies: Meghna provided case studies showcasing real-world examples of regions affected by acid rain, emphasizing the severity of its impact on ecosystems, water bodies, and infrastructure. These case studies helped illustrate the global nature of the problem.

Mitigation Strategies: The presentation did not solely focus on the problems; Meghna also discussed various mitigation strategies. This included advocating for cleaner energy sources, stricter industrial regulations, and international collaboration to reduce emissions of sulfur dioxide and nitrogen oxides.

Meghna Rajan's seminar on acid rain successfully educated the audience about the causes and consequences of this environmental issue. The call to action for adopting sustainable practices and supporting initiatives to reduce pollution highlighted the importance of individual and collective responsibility in preserving the planet.

The seminar concluded with a dynamic question and answer session, allowing the audience to engage with Meghna and explore additional aspects of acid rain. This interactive element enhanced the overall educational experience and fostered a deeper understanding of the subject.

Overall, Meghna Rajan's seminar on acid rain was a well-researched and impactful presentation, contributing significantly to environmental awareness and inspiring the audience to take meaningful actions towards a cleaner and healthier planet.

Student seminar presentation series – I (29/11/2022)

Student seminar presentation series - I, Organized by Department of Chemistry & Eureka club, Venue: II B. Sc. Chemistry.

The Department of Chemistry in association with Eureka club started the student seminar presentation series. Praveena K P from I B. Sc. Chemistry presented the seminar on the topic "Air Pollution". The seminar on air pollution by Praveena provided a comprehensive overview of the alarming issue of air quality deterioration. The presentation highlighted various aspects of air pollution, its causes, impacts on human health, and potential solutions.

Causes of Air Pollution: Praveena began by elucidating the primary sources of air pollution, including industrial emissions, vehicular exhaust, and agricultural practices. The audience gained insights into how these activities contribute to the release of pollutants such as particulate matter, nitrogen oxides, sulfur dioxide, and volatile organic compounds.

Impact on Human Health: The speaker emphasized the detrimental effects of air pollution on human health. Praveena detailed how exposure to polluted air can lead to respiratory diseases, cardiovascular problems, and other health issues. The seminar effectively conveyed the urgency of addressing this issue to safeguard public health.

Environmental Consequences: The environmental ramifications of air pollution were thoroughly discussed, highlighting its role in climate change, acid rain, and damage to ecosystems. Praveena presented data and case studies illustrating the adverse effects of air pollution on wildlife, plants, and natural habitats.

Regulatory Measures and Solutions: Praveena delved into existing regulatory measures aimed at curbing air pollution, both at the national and international levels. The presentation also explored potential solutions, including the promotion of renewable energy, stricter emission standards, and public awareness campaigns. The importance of collective efforts in mitigating air pollution was a key takeaway.

Praveena's seminar on air pollution provided a comprehensive understanding of the multifaceted challenges posed by deteriorating air quality. The audience gained valuable insights into the causes, consequences, and potential solutions for combating this critical issue. The seminar served as a catalyst for increased awareness and action toward creating a cleaner and healthier environment. Student presentation series offer a myriad of benefits ranging from skill development and confidence building to fostering a culture of knowledge sharing and community engagement.

Student seminar presentation series - I (29/11/2022)

Student seminar presentation series - I, Organized by Department of Chemistry & Eureka club, Venue: II B. Sc. Chemistry.

The Department of Chemistry in association with Eureka club started the student seminar presentation series. Shiga P Sunilkumar from I B. Sc. Chemistry presented the seminar on the topic "Artificial Sweeteners". Shiga delivered a comprehensive seminar on artificial sweeteners, shedding light on their chemistry, benefits, drawbacks, and controversies. The seminar aimed to provide attendees with a deeper understanding of these commonly used sugar substitutes and their implications on human health.Artificial sweeteners play a significant role in modern food and beverage industries, and Shiga aimed to elucidate their chemical properties and impact on human health during the seminar.

Key Highlights:

Chemical Composition and Sweetness: Shiga commenced the seminar by delving into the chemical structures of various artificial sweeteners, including saccharin, aspartame, sucralose, and stevia. He elucidated the molecular features responsible for their intense sweetness, emphasizing interactions with taste receptors on the tongue and their potency compared to natural sugars.

Synthesis Techniques: The presentation provided insights into the synthesis methods utilized in the production of artificial sweeteners. Shiga discussed diverse chemical reactions and manufacturing processes involved in creating these compounds, ensuring purity and safety standards are met in industrial settings.

Physiological Implications: Attendees gained valuable knowledge regarding the physiological effects of artificial sweeteners on the human body. Shiga addressed concerns surrounding their impact on metabolism, weight management, and potential risks associated with prolonged consumption. He emphasized the importance of scientific research in understanding these effects comprehensively.

Regulatory Landscape: A crucial aspect of the seminar was the discussion on regulatory frameworks governing the use of artificial sweeteners in food products. Shiga provided insights into established safety standards and regulations enforced by health authorities globally to safeguard consumer health and ensure the responsible use of these additives.

Shiga's seminar sparked engaging discussions among participants, fostering a deeper understanding of the chemistry and implications of artificial sweeteners. Attendees exchanged viewpoints on the balance between sweetness, health considerations, and consumer preferences in the food industry. The seminar concluded with a call for continued research and collaboration to address emerging questions and concerns in this field.

Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL) & Commercialisation of Lab Technologies & Tech-Transfer"

Speaker details

Jobin Jose and Jismi Jobin

Founders of Jobin and Jismi Software Company, Kottatt

Date 17/01/2023

Venue College Auditorium

ED CLUB,IIC and PG Department of Commerce of Sacred Heart College Chalakudy organized Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL) & Commercialisation of Lab Technologies & Tech-Transfer" by Jobin Jose and Jismi Jobin(Founders of Jobin and Jismi Software Company, Kottatt) on 17 January 2023. Around 150 students and faculty members participated in the event and the programme was conducted at the College Auditorium.The talk helped the students, identifying ways to develop innovative ideas and easier ways to commercialize them.

Outcome

1.Participants gained knowledge about identifying opportunities for technology transfer.

2.Students and faculty gained a clearer understanding of the various stages involved in cultivating and nurturing innovative ideas, from conception to execution.

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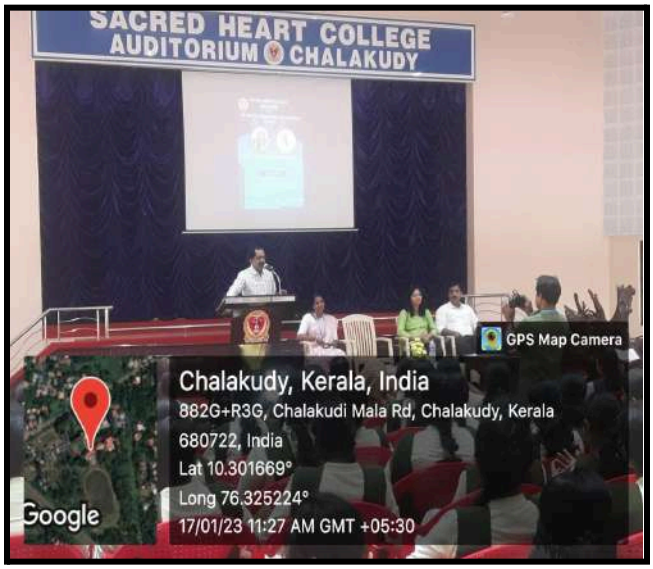



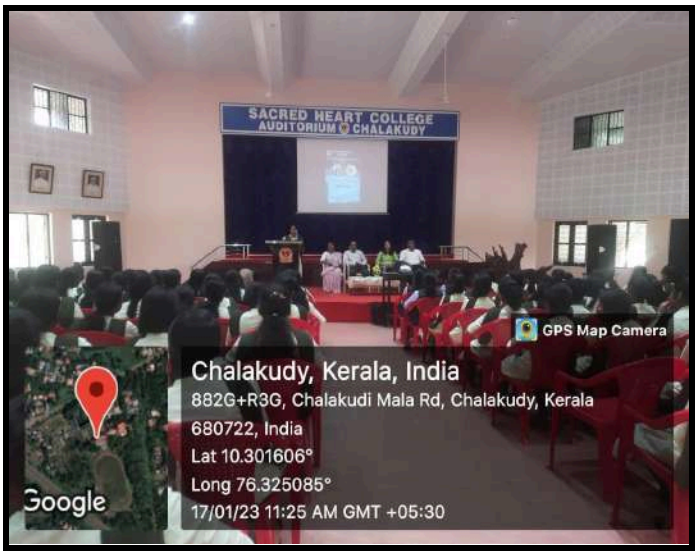
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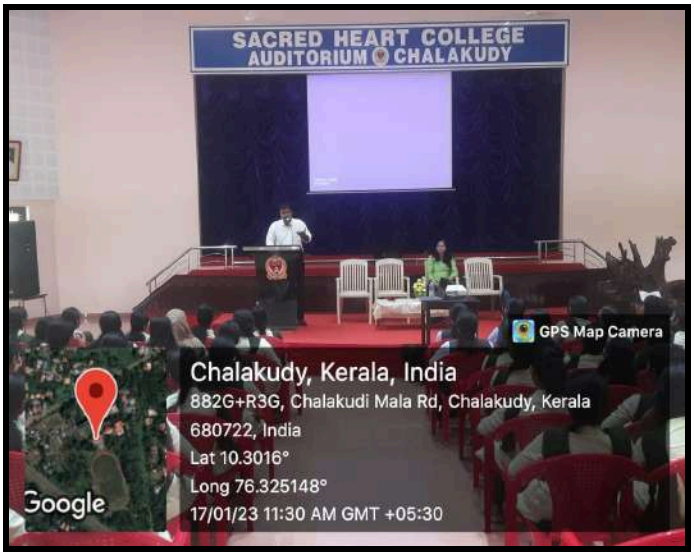
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Association Day Inauguration and Orientation Session

The inauguration of the Computer Science Association "CASC " was held on 16 September 2022 in the Clare hall at 10 a.m. The chief guest for the occasion was Dr.Binu P Chacko, principal of Prajyoti Niketan College, Pudukad. The inauguration started with a prayer song by Ms.Krishnanjana M G, and Ms. Sona Biju students of MSc Computer Science. Dr. Jisha Jose Panackal, Association Coordinator of the Department of Computer Science delivered the welcome speech. The presidential address was held by Rev.Dr.Sr.Irene, Principal, Sacred Heart College, Chalakudy. The event was formally inaugurated by lightening the lamp by the chief guest in the presence of the Principal, HOD, other staff members, and the students of the Computer Science department. The inaugural speech was given by Dr. Binu P Chacko. He enlightened the minds of the young aspirants. The felicitation was delivered by Dr. Shirley Jose, HOD of Economics and IQAC Coordinator of the College. It was followed by Dr. Sr. Miranto, HOD of Computer Science. After that, Ms.Jesteena Joy, Secretary of "CASC " delivered the vote of thanks and the formal function was declared to an end by the comparer Fansila P J, Msc Computer Science student.

After the formal meeting, an orientation session was taken by Dr. Binu P Chacko. He mainly covered the topics related to research, projects and how to get ready for the IT future. Ms.sreelakshmi, MSc Computer Science student, shared the valuable information imported in the class. The program concluded by 12.30 pm.The elected members of "CASC" for the academic year 2022-2023 is Ms.Jesteena Joy as Secretary, Ms.Sreelakshmi as treasurer, Ms Krishnajana and Ms Sona Biju as executive members.

CASC Inauguration started with a prayer song by Ms.Krishnanjana M G, and Ms. Sona Biju students of MSc Computer Science. Dr. Jisha Jose Panackal, Association Coordinator of the Department of Computer Science delivered the welcome speech. The presidential address was held by Rev.Dr.Sr.Irene, Principal, Sacred Heart College, Chalakudy.



CASC was Inaugurated by lightening the lamp by the chief guest Dr.Binu P Chacko, principal of Prajyoti Niketan College, Pudukad.The felicitation was delivered by Dr. Shirley Jose, HOD of

Economics and IQAC Coordinator of the College. The felicitation was delivered by Dr. Sr.Mini T.V., HOD of Computer Science, Sacred Heart College Chalakudy. Ms.Jesteena Joy, Secretary of “CASC " delivered the vote of thanks

An Orientation session was taken by Dr. Binu P Chacko, Chief Guest of the Day.



Industrial Visit conducted on 20-09-2022

The department of Computer Science conducted Industrial Visit as part of the capacity building among the postgraduate students of Computer Science and to familiarize them with the professional standards and culture. As per the request by the department, one of the reputed IT firms named IDatalytics located in Infopark, Kakkanad hosted the programme on 20th September 2022. The team of 4 faculty members and 20 students from first-year and second-year MSc departed at 9.15 am from the college and reached there at sharp 10.15 am.

The HR Co-ordinator Ms Ramcy P N and Software Engineer Mr Sivasankar S of Idatalytics welcomed the team. An orientation session began at 10.30 am, which comprised of several sessions by HR Manager Ms Amritha who explained about the rp2 programme, which is an initiative of IDatalytics and Talent acquisition Manager Mr Sharath Nair addressed the team from US and conveyed about the industrial lifestyle and internship opportunities for the students. The official session ended at 12.30 pm and the team interacted with the employees of the company for a while. The team started back to the campus by 1 pm and reached at 2.30pm. The visit was fruitful and enlightened the students on different aspects of industry standards and realized the need for updating their current knowledge.



Alumni Interaction Series I (22.9.22)

Computer Science Association of Sacred Heart College “CASC”, Chalakudy organized an Alumni Interaction on 22 September 2022 at the BSc computer science lab from 11 am. The Alumni interaction was conducted by Mrs. Anjana Jose, Software Engineer, HLC [batch 2017-2019] to share her experience with students.



Alumni Interaction Series- II (28-10-22)

CASC, Department of Computer Science, Sacred Heart College, Chalakudy organized an Alumni Interaction Series - II on 28th October 2022, 2.30 pm at the computer science lab. The Alumni interaction was conducted by Ms. Archana Venugopal, Analyst Programmer, at RAMCO company, Chennai. She secured 5th rank in MSc Computer Science at the University of Calicut [2019-2021 Batch].



Report of

Industrial Visit on Merricrem

Date : 28/09/2022

The students of 3rd DC had a valuable Industrial visit to Merricrem on 28/09/2022. The visit was both informative and enjoyable as they were divided into two groups. The company provided insights into the background and introduced its new brand, cammery. Additionally, the students learned about the food processing methods used in the production of ice cream,gaining practical experience and enhancing their understanding.



Initiatives for Creation and Transfer of Knowledge

I. On 7 November 2022 ,Department Association was inaugurated by Dr Muralikrishnan TR,Professor,Dept of English,Sree Sankaracharya University of Sanskrit,Kalady.Dr Muralikrishnan delivered a talk on 'Fanfiction and Fandom Studies'.College Principal Dr Sr Irene presided over the meeting.The programme was felicitated by Dr Santhosh Paul,HoD,Dept. of Chemistry.Welcome speech was delivered by Dr Sr A Princy Anto,Vice Principal and HoD in-charge.Association Secretary Ms Anna Julia rendered the Vote of Thanks.The students of the Department participated in the meeting.



Dr. Muralikrishnan T. R. inaugurating the event



Dr. Muralikrishnan T. R. proffering his scholarly inputs

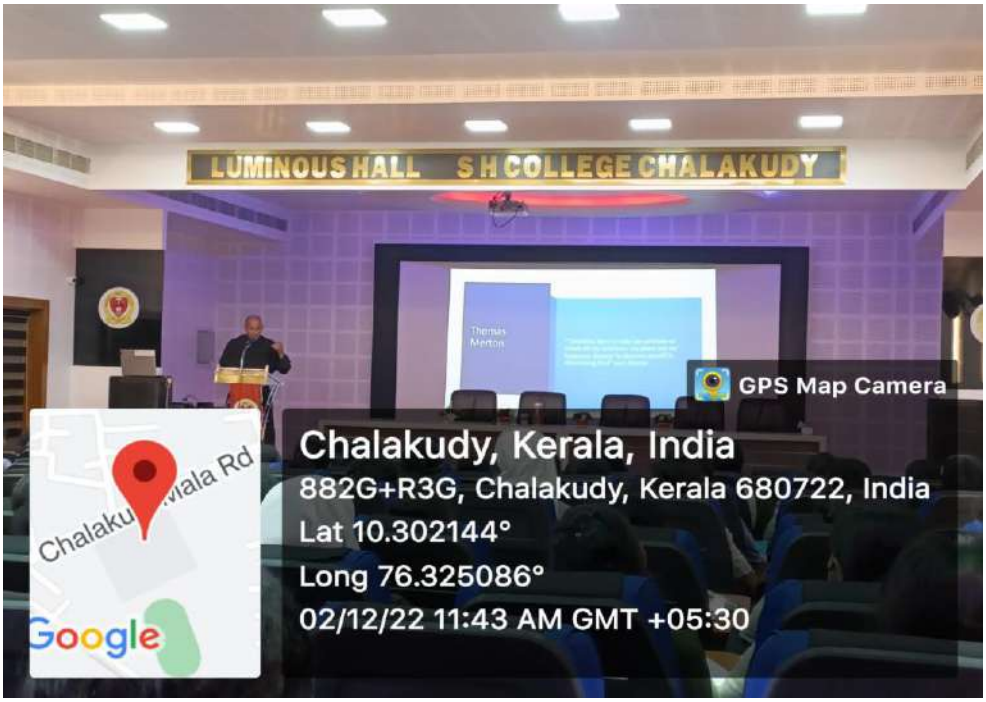


Members of the audience attending the academic session

II. "Svadhyaya: Discourse on the Art of Being" seminar was conducted on 2 December 2022.The seminar had two sessions.First session was engaged by Rev. Rev Dr John Pozhathuparambil, OFM Conv,Campus Minister,IDC-Theo Instructor,Bellarmine University, Louisville, Kentucky.Session two was led by Dr. Mallika A Nair, Assistant Professor & Research Guide, PG Department Of English & Research Centre, Vimala College (Autonomous), Thrissur.



The formal inaugural session



The erudite lecture



The active attendees

From Classroom to Community

Septuagenarian club of the Department of English was formed in the year 2007-2008 and it aims at a blending of the students and the elders of the society. It is a forum in which the students of the College reach out to the people above 70 years. The elderly ladies and gentlemen get an opportunity to share their life experiences with the youngsters of the society. And the youth contribute from their part, to encourage and motivate the elders. Thus they are mutually benefited and enriched through this club.

The Unitd Nation has earmarked Octber 1, every year for the elderly. In connection with this, Department of English Sacred Heart College Chalakudy runs a Septuagenerian Club "Samanvaya". This year on 28th September 2022 Samanvaya was proclaimed with various activities. The second year students under the guidance of Dr.Sr. A .Princy Anto organised samanvaya 2022 with the aim of bringing out the " Chid in grown – up body".

All the invited elders, above the age of 70 attended the programme which started at 10. 30am. The programme commenced with prayer lead by Chandini Chandran from 2nd DC English. The gathering was welcomed by Sr.Alby FCC from 2nd DC English. Rev. Dr. Sr. Irene, Principal of Sacred Heart College Chalakudy presided over the programme and she stressed the importance of the wisdom and experience of the aged people and the respect they deserve from the children, grandchildren and the society. Dr. Parvathy B. Retired Prof. Panambilly Memorial Gov.College Chalakudy inaugrated the programme and she delivered message that there should be a mutual understanding between the childern and the grandparents. Mrs. Thankamani Gopalan representative of elderly, delivered the felicitation. The programme culminated with vote of thanks cast by Rev. Dr. Sr. A. Princy Anto Vice Principal and Assistant Prof.of Department of English, and there by making an end to the official function.

The formal ending however paved way for a beginning. The invitees were entertained with fabulous programmes of the students from the Deprtment of English. After the programmes of students, the grandpas and grandmas displayed their talents and shared their experience. Refreshments were arranged and mementos were distiributed as token of love and care. The members retreated to their homes more relaxed and energized. Samanvaya 2022 once again asserted the social commitment of the Department.

List of Participants

1. Thankmani Goplan
2. Mary George
3. Bindhu
4. Dolly
5. Alfred
6. Philomina Alfred
7. Prameela
8. Thressiamma Jose
9. Mary Joseph
10. Kunjuvareeth Thekkan
11. Rosily
12. Dr. A.K. Jose
13. Dr.karthiyani Jose
14. Vargheese Chakalakal
15. Mary
16. Vincent Thottakath
17. Brigit Alexander
18. George Malppan
19. Rosliy George
20. Seleena
21. K.Thomas
22. Philomina Thomas
23. Vargheese
24. M.K. Francis
25. Stanly Chirayath

List of Volunteers

1. Anjana . A .
2. Chandini Chandran
3. Afna K.K.
4. Agnas Mariya
5. Alby . K.T
6. Amirtha Unni
7. Ann Grace Jose
8. Anna Julia
9. Anna Nelson
10. Arsha Mariya
11. Delisha Desna
12. Krishnapriya. V.
13. Nandana K.U
14. Nandana Nair
15. Sahla C.K.



INAUGRATION OF SEPTUAGENARIAN CLUB



INAUGRAL ADDRESS



Invited Talk

Department organised a class on women empowerment on 24th January 2022. The class conducted by Riya Elamma Raju. She talked about the women empowerment. She is working as women facilitator in Chalakudy Muncipality. She motivated the students by telling them the need of job for their sustenance.



Study Tour

As a part of study tour , the students of history department visited Goa, Humpi and

Bangalore.



LOCAL HISTORY OF THIRUVILWAMALA

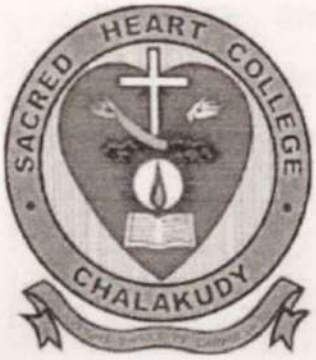
A dissertation submitted to the University of Calicut in partial fulfilment of therequirements for the award of degree

Bachelor of Arts in History

SNEHA BABU

(Reg No: SHAUAHIR37)

Department of History



Sacred Heart College

Chalakudy

2020 – 2023

LOCAL HISTORY OF ATHIRAPPILLY

A dissertation of Subject to the University of Calicut in partial fulfilment of the requirements for the award of degree

Bachelor of Arts in History

ANILA ANILKUMAR

(Reg.No.SHAUAHIR15)

Department of History



Sacred Heart College
Chalakudy

2022-2023

LOCAL HISTORY OF ANGAMALY

A dissertation submitted to the University of Calicut in partial fulfilment of the requirements for the award of degree

Bachelor of Arts in History

VIJISHA V.V

(Reg.No. SHAUAHIR 43)

Department of History

SACRED HEART COLLEGE

CHALAKUDY

LOCAL HISTORY OF IDUKKI

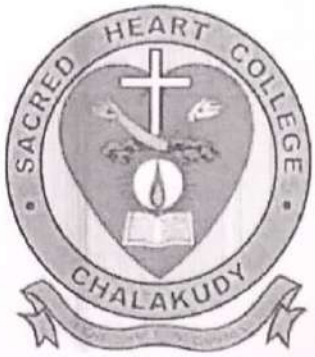
A dissertation submitted to the university of Calicut in partial fulfilment of the requirements for the award of degree

Bachelor of Arts in History

ARCHANA T S

(Reg No: SHAUAHIR16)

Department of History



Sacred Heart College

Chalakudy

2020 – 2023

Nilayude Theerathe Mamanga Naadu

A dissertation submitted to the University of Calicut in partial fulfillment of the requirements for the award of degree.

Bachelor of Arts in History.

Khadeeja Sanha. C

(Reg. No: SHAUAHIR26)

Department of History

Sacred Heart College

Chalakudy

2020 - 2023

LOCAL HISTORY OF VAIKOM

Dissertation submitted to the UNIVERSITY OF CALICUT In partial fulfilment of the requirements for the award of Degree of Bachelor of Arts in History.

SREELAKSHMI K

(Reg. No. SHAUAHIR39)

DEPARTMENT OF HISTORY

SACRED HEART OF COLLEGE

CHALAKUDY

2022-2023

LOCAL HISTORY OF SIVAGIRI

A dissertation submitted to the University of Calicut in Partial fulfilment of

The requirements for the award of degree

Bachelor of Arts in History

ASWATHY M R

(Reg No: SHAUAHIR18)

Department of History



Sacred Heart College

Chalakudy

2020-2023

JEWISH SETTLEMENTS IN COCHIN AND KODUGALLUR

Dissertations submitted to the UNIERSITY OF CALICUT in partial fulfillment of the requirements for the award of Degree of Bachelor of Arts in History.

MARILA PAUL
(Reg No. SHAUAHIR04)
DEPARTMENT OF HISTORY
SACRED HEART COLLEGE
CHALAKUDY
2020-2023

LOCAL HISTORY OF PALAKKAD

A dissertation submitted to the University of Calicut in partial fulfilment of the requirements for the award of degree

Bachelor of Arts in History

ADHILA BANU

(Reg.No. SHAUAHIR 13)

Department of History

SACRED HEART COLLEGE

CHALAKUDY

LOCAL HISTORY OF KODAKARA

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Bachelor of Arts in History

THAHIRA K R

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SACRED HEART COLLEGE

CHALAKUDY

THE RELIGION OF JAINISM

Dissertation submitted to the UNIVERSITY OF CALICUT in partial fulfillment of the requirements for the award of Degree of Bachelor of Arts in History.

PRATTIPATTI BABY RANI

(Reg. No. SHAUAHIR06)

DEPARTMENT OF HISTORY

SACRED HEART COLLEGE

CHALAKUDY

2020-2023

A HISTORICAL STUDY OF THE KUTTIPPURAM

A dissertation submitted to the University of Calicut in partial fulfillment of the requirements .

Bachelor of Arts in History.

THANKESWARI.V.P

((Reg. No: SHAUAHIR41)

Department of History



Sacred Heart College

Chalakudy

2020 - 2023

A HSTORICAL STUDY OF THE PONNANI

A dissertation submitted to the University of Calicut in partial fulfillment of the requirements for the award of degree.

Bachelor of Arts in History.

Shifna Shireen. K.P
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Sacred Heart College

Chalakudy

2020 - 2023

LOCAL HISTORY OF OTTAPALAM

A dissertation submitted to the University of Calicut in partial fulfillment of therequirements for the award of degree

Bachelor of Arts in History

Sneha K Ramesh

(Reg No: SHAUAHIR38)

Department of History



Sacred Heart College

Chalakudy

2020 – 2023

LOCAL HISTORY OF FORT KOCHI

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The requirements for the award of degree

Bachelor of Arts In history

NANDANA T N
(Reg No: SHAUAHIR 29)

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Sacred Heart College
Chalakudy
2020-2023

A HISTORICAL STUDY OF KUTTICHIRA

A dissertation to the University of Calicut in p partial fulfillment of the requirement for the Award of Degree Bachelor of Arts in history.

VANDHANA E V

SHAUAHIR12

DEPARTMENT OF HISTORY

SACRED HEART COLLEGE

CHALAKUDY

2020-2023

HISTORY OF NEDUMKOTTA

A dissertation submitted to the university of Calicut in partial fulfillment of the requirements for the award of degree

Bachelor of Arts in History

GAYATHRY N J

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Chalakudy

2020-2023

LOCAL HISTORY OF KODASSERY

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Bachelor of Arts in History

RESHMA K S

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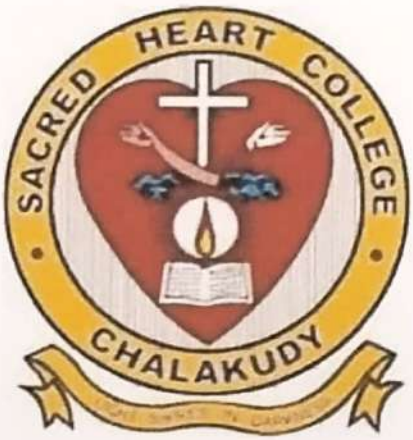

Sacred Heart College

Chalakudy

2020-2023

LOCAL HISTORY OF MATTANCHERRY

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Bachelor of Arts in History

PRAVEENA M B
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Sacred Heart College, Chalakudy
2020-2023

LOCAL HISTORY OF CHENDAMANGALAM

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The requirements for the award of degree

Bachelor of Arts in History

RAJALAKSHMI V A

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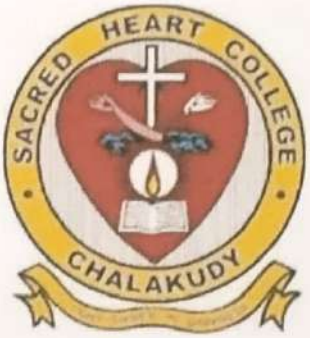

Sacred Heart College

Chalakudy

2020-2023

A HISTORICAL STUDY OF SAMPALOOR

A dissertation submitted to the university of Calicut in partial fulfillment of the requirements for the award to the degree of bachelor of arts in history

MEGHA BENNY
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DEPARTMENT OF HISTORY
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2020_2023

LOCAL HISTORY OF PUTHENCHIRA

Dissertation submitted to the **UNIVERSITY OF CALICUT** in partial fulfilment of the requirements for the award of Degree of Bachelor of Arts in History.

K.A. SANILA

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DEPARTMENT OF HISTORY

SACRED HEART COLLEGE CHALAKUDY

2020-2023

LOCAL HISTORY OF IRINJALAKUDA

Dissertation submitted to the UNIVERSITY OF CALICUT in partial fulfillment of the requirements for the award of Degree of Bachelor of Arts in History.

SMITHA ANTONY

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2020-2023

LOCAL HISTORY OF PARIYARAM

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Bachelor of Arts in History

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Sacred Heart College

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2020 – 2023

A HISTORICAL STUDY OF GURUVAYOOR

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PRAVEENA K

(Reg. No. SHAUAHIR30)

DEPARTMENT OF HISTORY

SACRED HEART COLLEAGE CHALAKUDY

2020-2023

Coimbatore : The Manchester of South India

A dissertation submitted to the University of Calicut in partial fulfilment of the requirements for the award of the degree

Bachelor of Arts in History.

M A FATHIMA JASRA

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Sacred Heart College, Chalakudy

2020-2023

LOCAL HISTORY OF KANDASSANKADAVU

Dissertation submitted to the UNIVERSITY OF CALICUT in partial fulfilment of the requirements for the award of Degree of Bachelor of Arts in History.

ASHIDA BAIJU

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DEPARTMENT OF HISTORY

SACRED HEART COLLEGE

CHALAKUDY

2022-2023

TRACING THE GEOGRAPHICAL AND CULTURAL SIGNIFICANCE OF KUTTANAD

Dissertation submitted to the **UNIVERSITY OF CALICUT** in partial Fulfillment of the requirement for the award of Degree of Bachelor of Arts in History.

REVATHY P R

(Reg. No. SHAUAHIR07)

DEPARTMENT OF HISTORY

SACRED HEART COLLEGE

CHALAKUDY

2020-2023

LOCAL HISTORY OF Chimmini Dam

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Bachelor of Arts in History

Amrutha K U

(Reg No: SHAUAHIR01)

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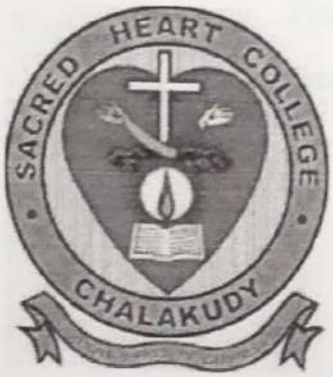

Sacred Heart College

Chalakudy

2020 – 2023

LOCAL HISTORY OF KALADY

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JOMOL M J
(Reg No: SHAUAHIR 02)

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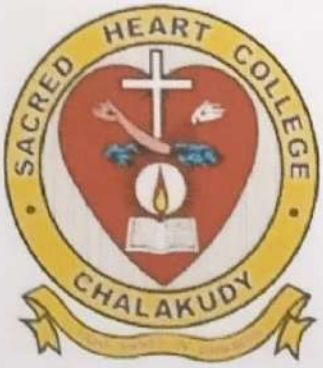

Sacred Heart College
Chalakudy
2020-2023

THE HISTORICAL STUDY OF BEYPORE

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Sacred Heart College

Chalakudy

2020-2023

LOCAL HISTORY OF KORATTY

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Rathika Ramesan

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Sacred Heart College

Chalakudy

2020 – 2023

LOCAL HISTORY OF KODUNGALLUR

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SABAHA BASHEER

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Sacred Heart College

Chalakudy

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HANNA MARY

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DEPARTMENT OF HISTORY

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2020-2023

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AISWARYA BABU

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DEPARTMENT OF HISTORY

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2020-2023

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VARSHA N S

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Sacred Heart College
Chalakudy
2020-2023

LOOKING BACK TO THE GLORY OF PERUVANAM ; A LOCAL STUDY

A dissertation submitted to the University of Calicut in partial fulfilment of the requirements for the Award of Degree

Bachelor of Arts in History

SEETHAL M S

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Department of History



Sacred Heart College

Chalakudy

2020 - 2023

A HISTORICAL STUDY OF THE TIRUR

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Shafna Jasmin.p

(Reg. No: SHAUAHIR10)

Department of History

Sacred Heart College

Chalakudy

2020 - 2023

LOCAL HISTORY OF THRISSUR

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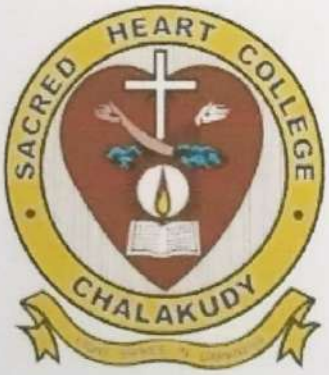
DEVIKRISHNA K S
(Reg No: SHAUAHIR 20)

Department of History



Sacred Heart College
Chalakudy
2020-2023

10 to 12 August 2022

Azadi Ka Amrit Mahotsav is an initiative of the Government of India to celebrate and commemorate 75 years of independence and the glorious history of it's people, culture and achievements. As a part of Azadi Ka Amrit Maholsav department of History sacred Heart college Chalakudy made a Freedom wall at our College in the Remembrances of Freedom movement of our nation. It is a 20 hours drawing programme about 25 students of different departments of our college participated in this Freedom wall painting . The programme conducted from 10th to 12th august 2022. The programme was inaugurated by ward councillor Ms Bindu Sasikumar, our principal Dr Sr Irene delivered the presidential address.



12 th August 2022

On 12th August 2022, students of history commemorate the independence day by collecting the thumb impression of the students and staff of the college and made the model of our national flag. The programme was inaugurated by our ward couincillor Ms Bindu Sasikumar. Presidential address delivered by principal Dr Sr Irene.



Prussia as an absolutist state

z

- German state _ Brandemburg turned into kingdom of Prussia in 1701
- Frederick William I _ strong kingdom
- Rival to Austria _ German state _ Holy Roman Emperor

z

- Frederick William _ absolute monarchy, proper form of government, honest and efficient administration
- Extreme methods for the benefit of people
- New army, rigid military discipline
- Goethe _ the most slavish country in Europe
- War like and harsh in discipline

z

- Encouraged mercantalism
- Free movement of the craftsmen
- Middle class people in state bureaucracy
- Social classes in Europe
- Ruling class junker aristocracy
- Junkets _ officers of army, rigid discipline

z

- Imposed discipline on common soldiers
- Junkets managed their estate _ Peasants as serf
- State discipline on the People, faith in kings
- Federico william I _ highly centralised bureacracy

z

- General Directory for Finance _ supervised every aspect of government
- Prussian army raised to 81,000, largest troops in Europe

z

Frederick the Great

- Frederick II _ Prussian despotism reached its climax
- Enlightened despot
- Enlightenment monarch preferred _ limited monarchy, Republican state
- Progress would be faster, reasonable, benevolent,
- Frederick stood for enlightened goal

z

- Welfare state created not by despot
- Contradiction in the ideas of despotism and enlightenment
- Frederick _ dnlghtsned _ scientific ideas
- Influenced by enlightenment ideas of government, religion, education
- King servant of the people

z

- Frederik wrote anti machiavelli
- Monarch is not the absolute master
- First servant of the state
- Act for whole community

Scientific Revolution

z

- 17th century scientific thought underwent a revolution
- Changes in the ideas in the realm of physics, astronomy, biology,human anatomy, chemistry, mathematics
- Led to the rejection of Christian ideas
- Foundation of modern science
- Alexander Koyre coined the term scientific revolution

Scientific revolution marked by following changes

- Replacement of geo centric theory to heliocentric theory
- Rejection of aristotelian theory and the authority of church
- Nature as machine
- Method of enquiry called scientific method
- Stressing how

z

- Copernicus, Galileo, Kepler, vesalius, newton were the figures of scientific revolution
- Two works that changed the course of science
- Copernicus on the revolutions of the heavenly bodies
- Vesalius on the fabrics of the human body

z

- Revolution began in astronomy by copernicus
- Rejected geo centric theory of ptolemy
- Ptolemys view earth was stationary, centre of universe, heavenly bodies revolve around it
- Copernicus theory heliocentric, sun centred

z

- Heliocentric later developed by Kepler, popularised by Galileo
- Kepler, german scientist explains ed how the planets move around the sun
- He described the principles that governed these movements

z

- Beacons work Novum Organum
- Rene Descartes Discourse on the method in 1637
- Newton law of gravitation
- William Harvey process of the circulation of blood from the heart to all parts of the body

z

- Opened the doors to modern science
- New theories and methods of enquiry
- 17th century century of science
- Scientific revolution marked changes in political, economic, social and intellectual Levels
- Values of individualism, truth and rationalism
- Growth of capitalism

30th August 2022

Students of history organised food fest on 30th August 2022. The intention of the programme was to help the needy people of the society. The amount collected from this food fest gave to the people of Anugraha Sadan (old age home).



2nd September 2022

On 2nd september few of our students visited the Augraha Sadan (Old age home) in Koodapuzha. They donated Rupee 5000 to the inmates of Augrahasadan.

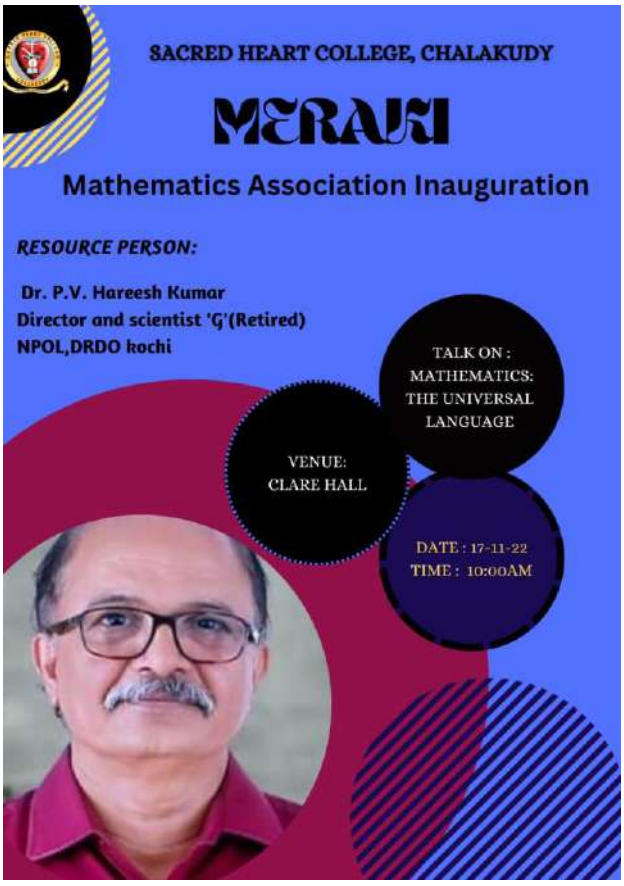


ASSOCIATION INAUGURATION

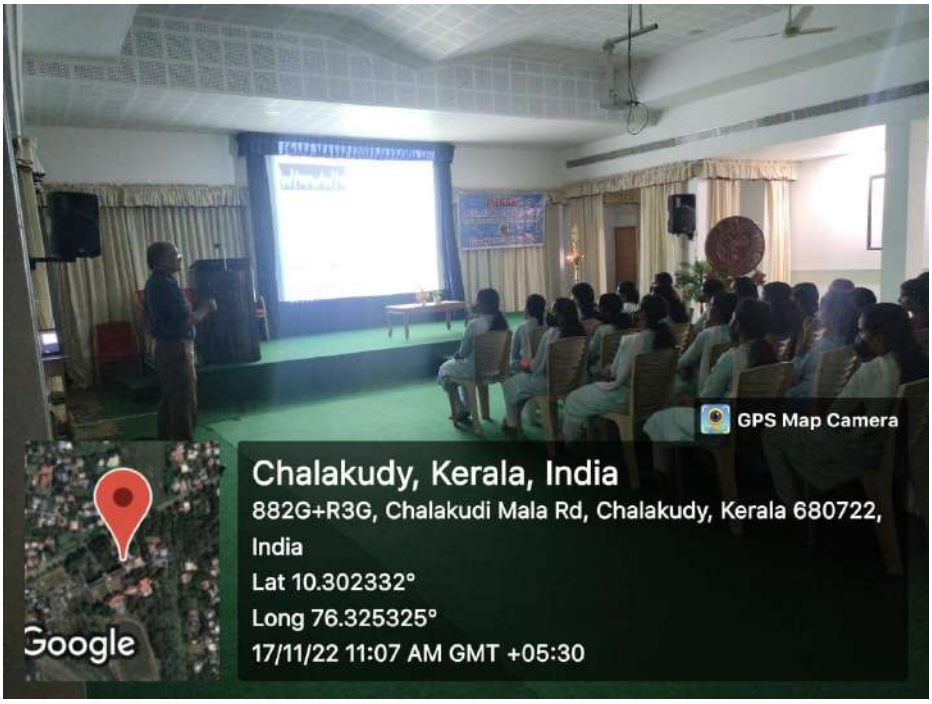
The Department arranged the inauguration of its association 'MERAKI' on 17-11-2022. The program was inaugurated by Dr. P. V. Hareesh Kumar, Director and (Retd) Scientist 'G', NPOL, DRDO. The program begin with an official ceremony in which the Principal of the college participated. The association was officially inaugurated by lighting of the lamp by the dignitaries.

The program comprised of a talk given by the chief guest Dr. P. V. Hareesh Kumar on the topic "Mathematics: The universal language".

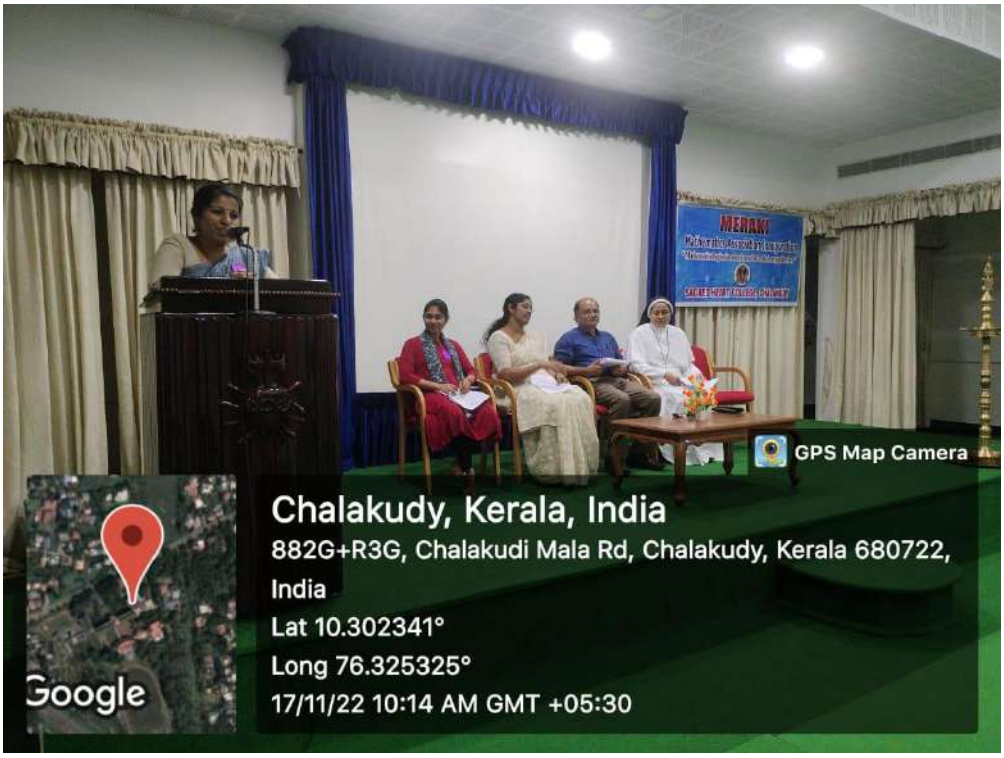
Hareesh Sir provided a very interactive session on the same in which all the students participated enthusiastically.



Brochure of Association Inauguration "MERAKI"



Talk by Dr. P.V. Hareesh Kumar on “Mathematics: The Universal language”



Inaugural address by Ms. Smitha Davis, HOD, Department of Mathematics



Inauguration by Principal Dr.Sr.Irene.



Official inauguration of MERAKI by lighting of the lamp by the dignitaries.

DEPARTMENT OF MATHEMATICS
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CERTIFICATE

This is to certify that the dissertation entitled **"MATROID THEORY"** submitted by **Ms. AKSHARA K.C** (Reg. No. SHAVMMS001) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"LOTKA - VOLTERRA MODEL"** submitted by **Ms.ALEENA WILSON** (Reg. No. SHAVMMS002) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"SARD'S THEOREM AND APPLICATION"** submitted by **Ms. ANAGHAKRISHNA K U** (Reg. No. SHAVMMS003) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"A STUDY OF MULTIGROUP STRUCTURE"** submitted by **Ms. Anju Antony** (Reg. No. SHAVMMS004) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"COMBINATORIAL DESIGNS"** submitted by **Ms. Ann Maria Varghese** (Reg. No. SHAVMMS005) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"NETWORK ANALYSIS"** submitted by **Ms. ARYALAKSHMI N A** (Reg. No. SHAVMMS006) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"INTRODUCTION TO HYPER-GRAPH "** submitted by **Ms.ASHNA VARGHEESE** (Reg. No. SHAVMMS007) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"REPRESENTATION THEORY OF GROUPS"** submitted by **Ms. ATHULYA JOY** (Reg. No. SHAVMMS008) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"BIFURCATION THEORY"** submitted by **Ms. C G ANJANA** (Reg. No. SHAVMMS009) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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CERTIFICATE

This is to certify that the project entitled **"A STUDY ON ENERGY OF GRAPH"** submitted to Department of Mathematics in partial fulfilment of the requirement for the award of the M.Sc Degree programme in Mathematics, is a bonafide record of original research work done by **Ms. CHRISTY SHAJI (SHAVMMS010)** during the period of her study in the Department of Mathematics, Sacred Heart College, Chalakudy, under my supervision and guidance during the year 2021-2023

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Place : Chalakudy

Date : 6 July 2023

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CERTIFICATE

This is to certify that the dissertation entitled **"FUZZY GRAPHS"** submitted by **Ms. DEVIKA M S** (Reg. No. SHAVMMS011) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"ARTIFICIAL INTELLIGENCE AND MATHEMATICS"** submitted by **Ms. HAMNAH UMMER K K** (Reg. No. SHAVMMS012) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"NETS AND FILTERS"** submitted by **Ms. Jeneesha Suresh** (Reg. No. SHAVMMS013) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled "**HADAMARD MATRIX AND RHOTRIX THEORY** " submitted by **Ms. Megha Viswanadh** (Reg. No. SHAVMMS014) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"GRACEFUL GRAPH"** submitted by **Ms. NIGITHA THOMAS** (Reg. No. SHAVMMS015) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"MIXED INTEGER PROGRAM"** submitted by **Ms. Rosna Davis** (Reg. No. SHAVMMS016) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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This is to certify that the dissertation entitled **"THE THEORY OF MATRICES IN NUMERICAL ANALYSIS "** submitted by **Ms. SNEHA SHAJI** (Reg. No. SHAVMMS017) in partial fulfillment of the requirements for the M.Sc. degree in Mathematics to University of Calicut, is a bonafide record of the studies carried out by her under my supervision in the Department of Mathematics, Sacred Heart College, Chalakudy. This report has not been submitted anywhere for any other degree of any other University or Board.

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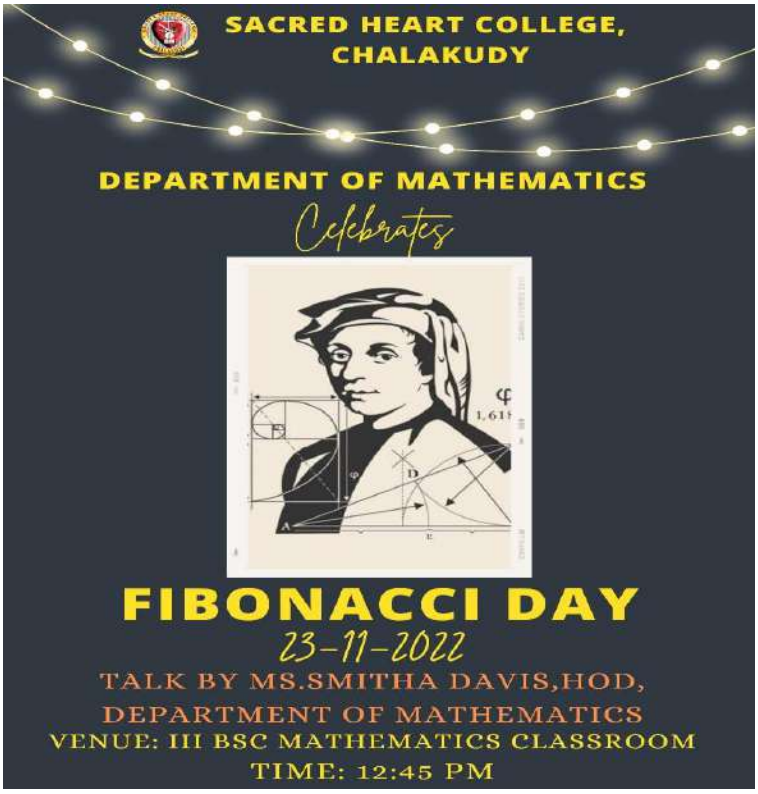
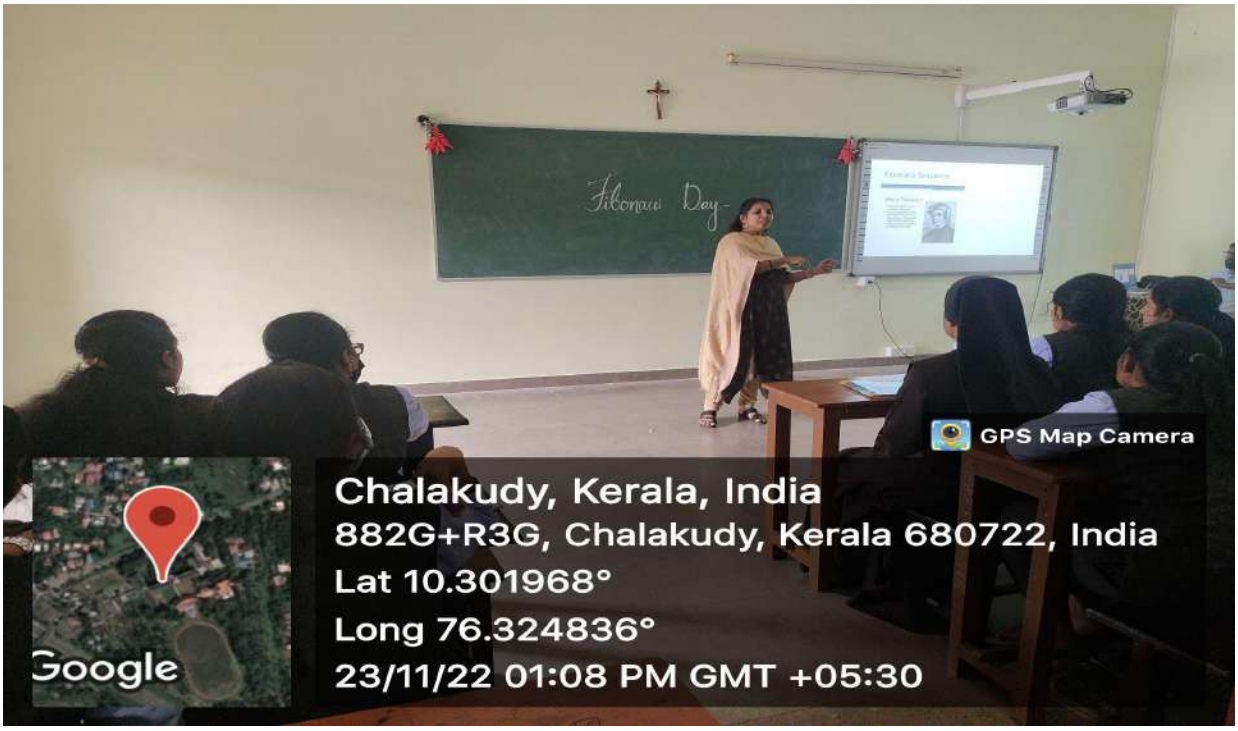
Fibonacci Day 2022

Department of Mathematics

Department of Mathematics celebrated November 23 as Fibonacci Day.The day is observed as Fibonacci Day because when it is written in the mm/dd format (11/23), the digits form a fibonacci sequence 1,1,2,3. On this day, the department organized a talk on Fibonacci sequence by Ms.Smitha Davis, Head, Department of Mathematics.The class was interactive and the students from various departments actively presented in the session.The program was coordinated by Ms. Nima Maria, Assistant Professor on Contract, Department of Mathematics.




Fibonacci Day
GPS Map Camera
Google
Chalakudy, Kerala, India
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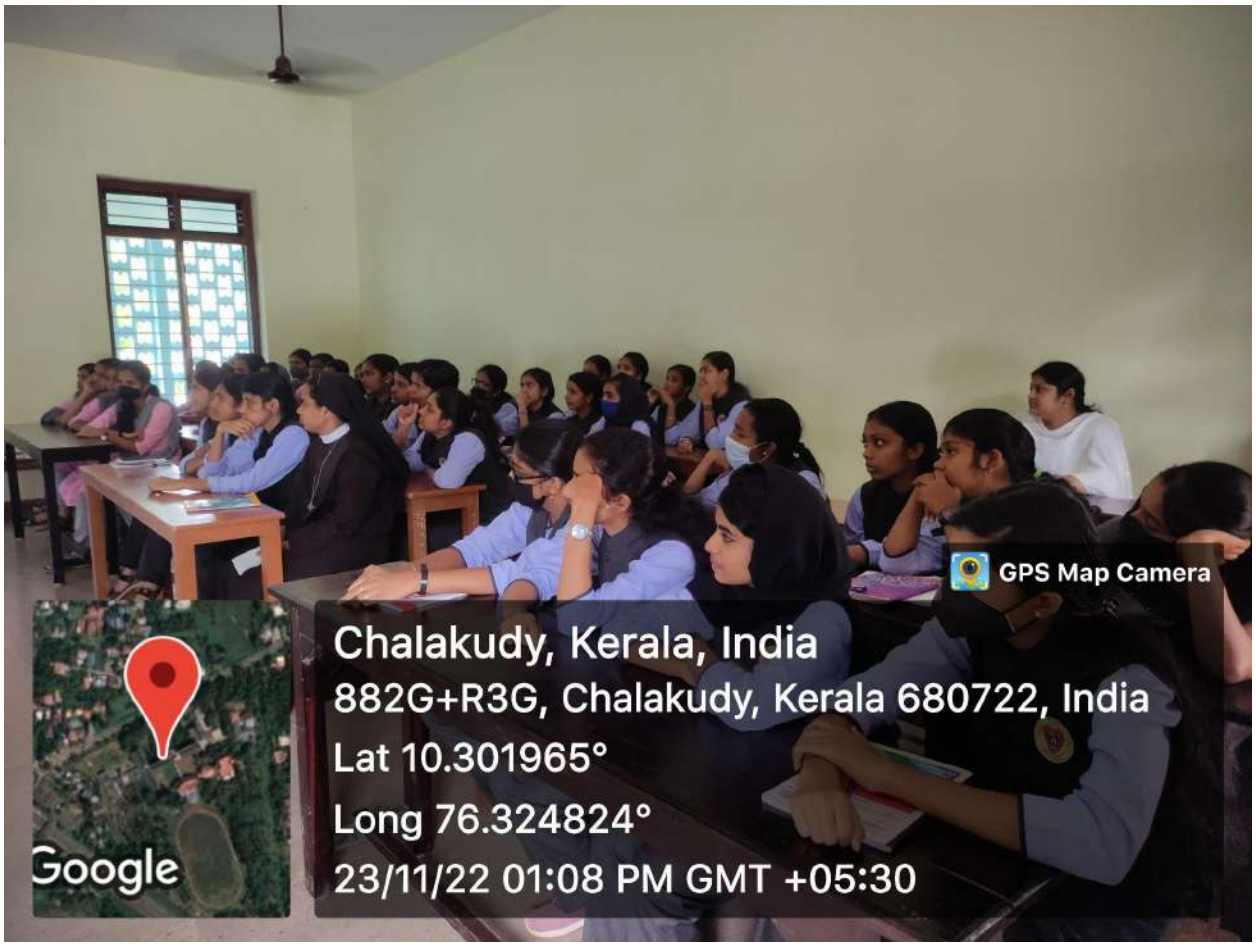
Lat 10.301968°
Long 76.324836°
23/11/22 01:08 PM GMT +05:30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NATIONAL MATHEMATICS DAY 2022

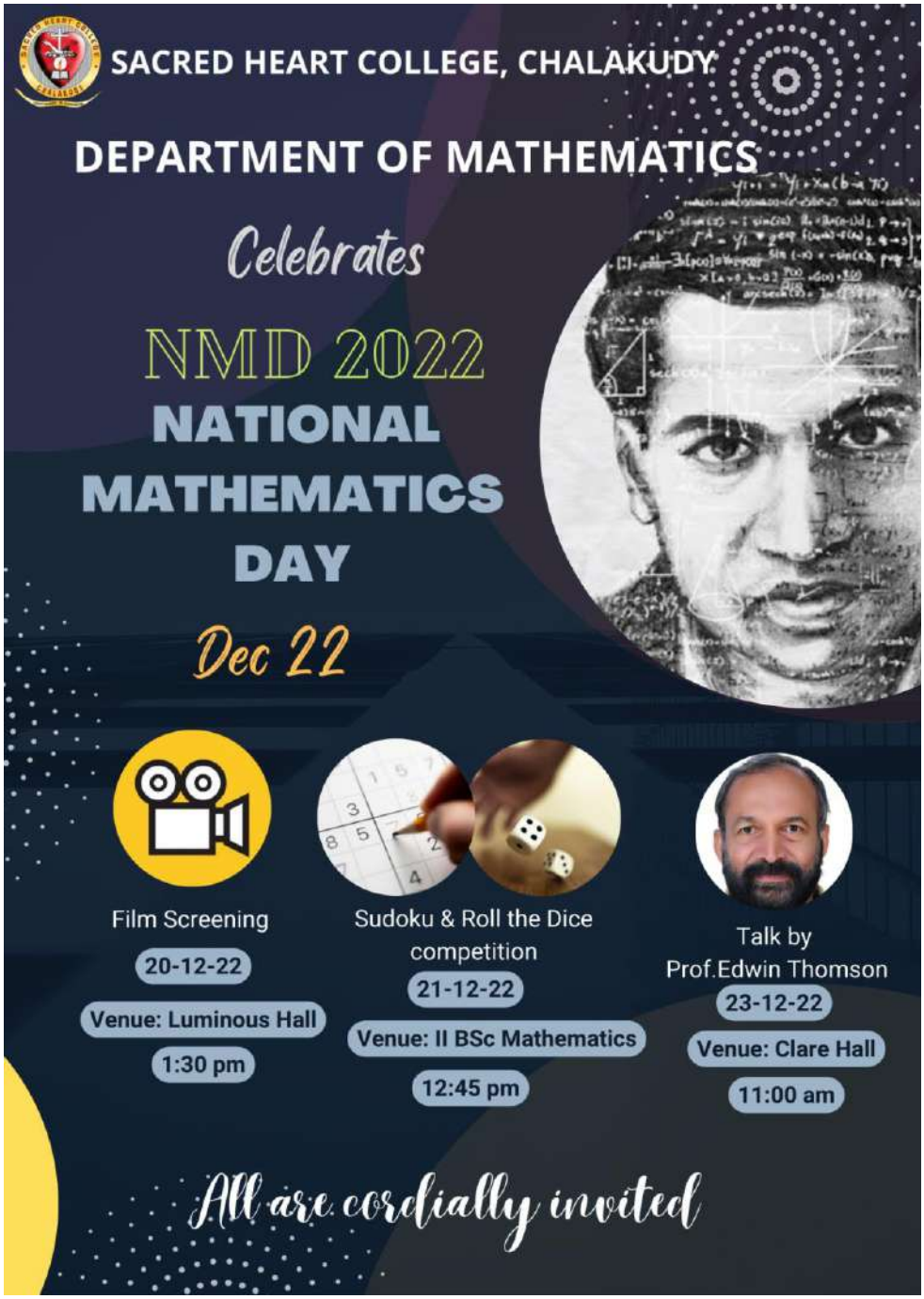
National Mathematics Day is observed on 22nd of December every year to commemorate the birthday of Great Indian mathematician Srinivasa Ramanujan. As part of National Mathematics Day, various programmes were conducted by the department for the students on 20-12-2022,21-12-2022 and 23-12-2022. This year the department celebrated NMD on three days, each day was filled with activities for the students to celebrate mathematics.

On 20-12-22, the screening of the life history of Srinivasa Ramanujan, the movie "The Man who knew Infinity" was organized in Luminous Hall. The students eagerly watched the movie and was able to get a deeper knowledge into the life of the great Mathematician.

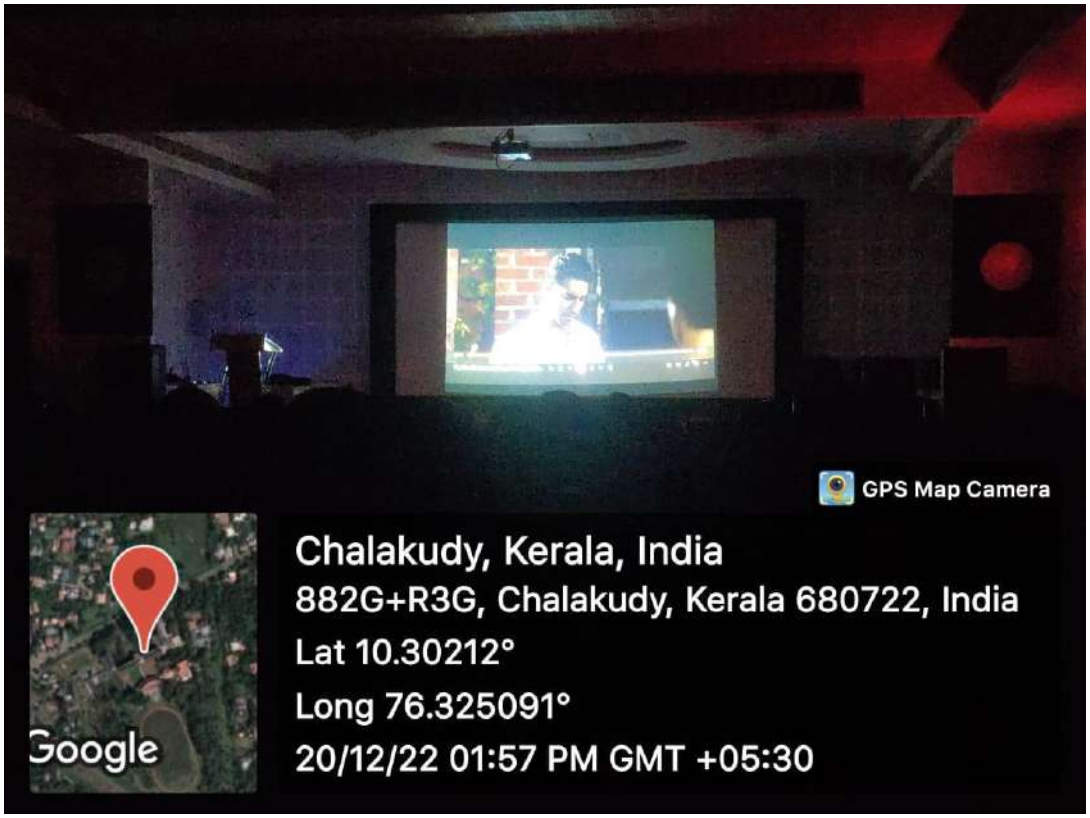
The next day the students were engaged in various games like SUDOKU and Roll the dice. Many students participated enthusiastically in the events which helped in improving their mathematical skills.

The department winded up the celebration of NMD by a simple and inspiring talk by Prof. Edwin Thomson, Retd Professor, St. Alberts College, Ernakulam.

The students were filled with the thought of how the subject mathematics came into existence and also got a deeper insight about the applications and beauty of mathematics.



Brochure of NMD 2023

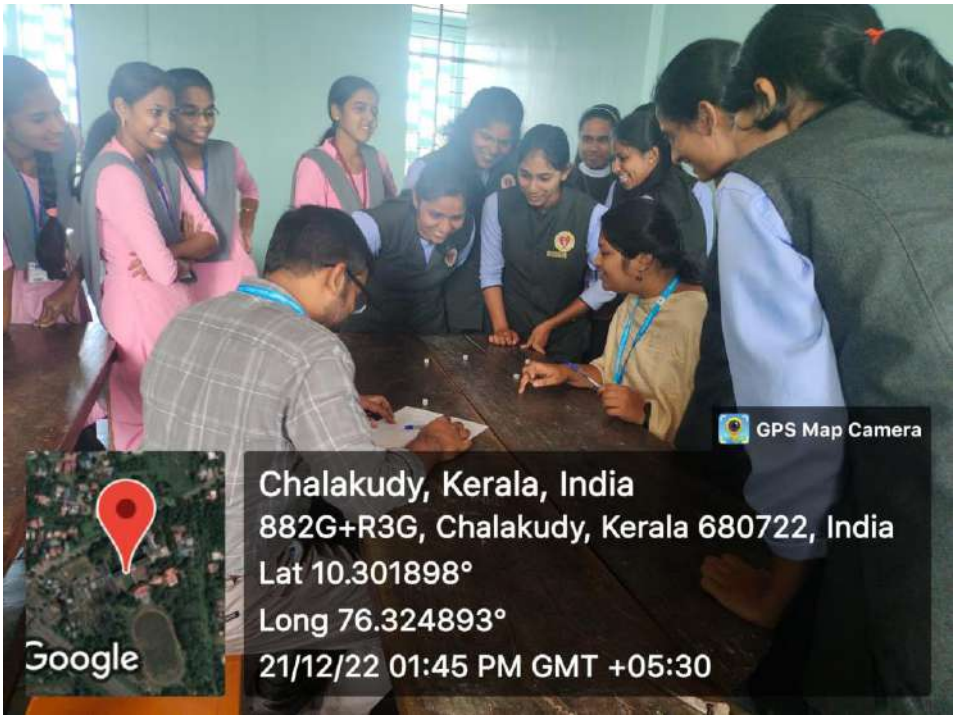




Screening of the film “The Man who knew Infinity”



Students participating in SUDOKU competition



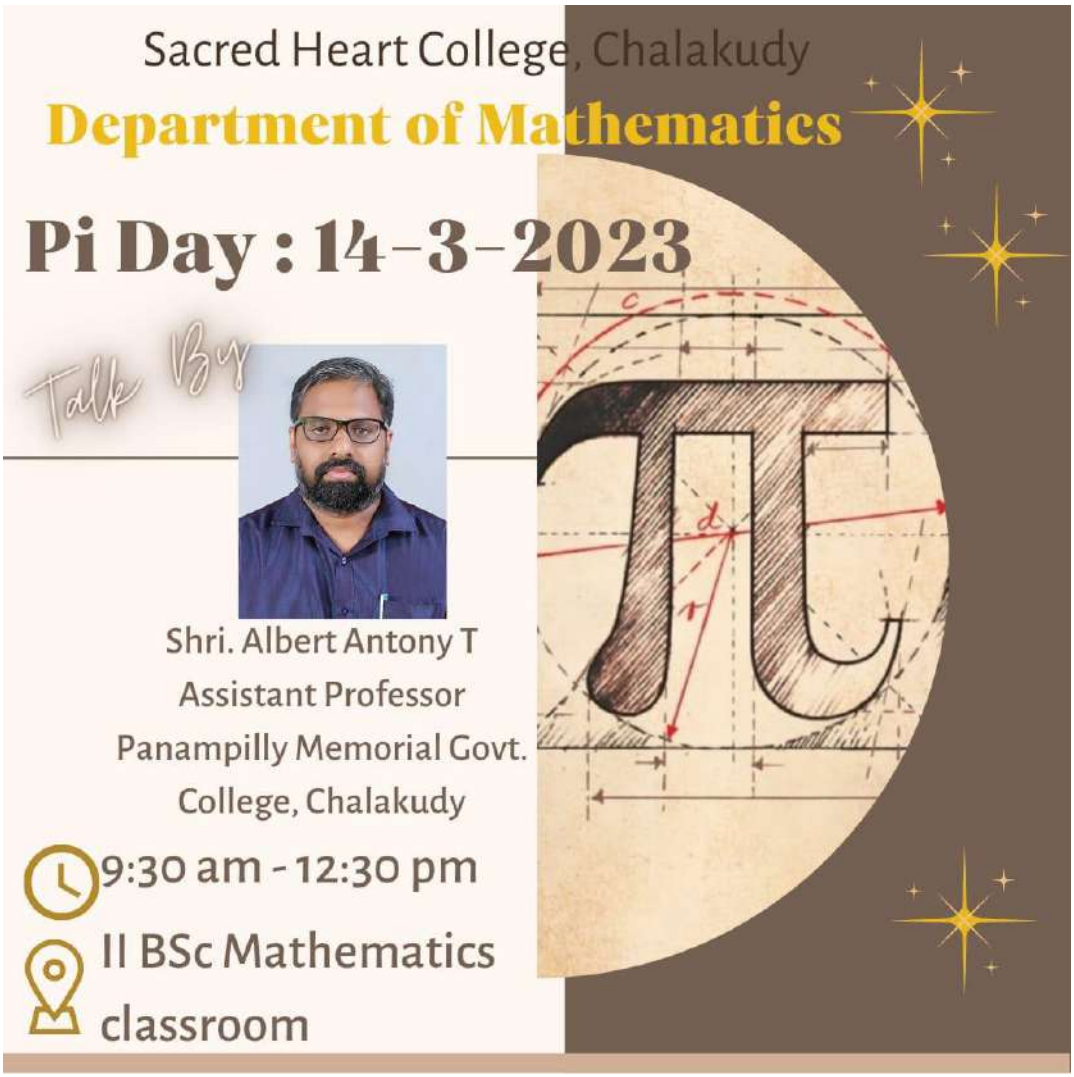
Students taking part in Roll the Dice game



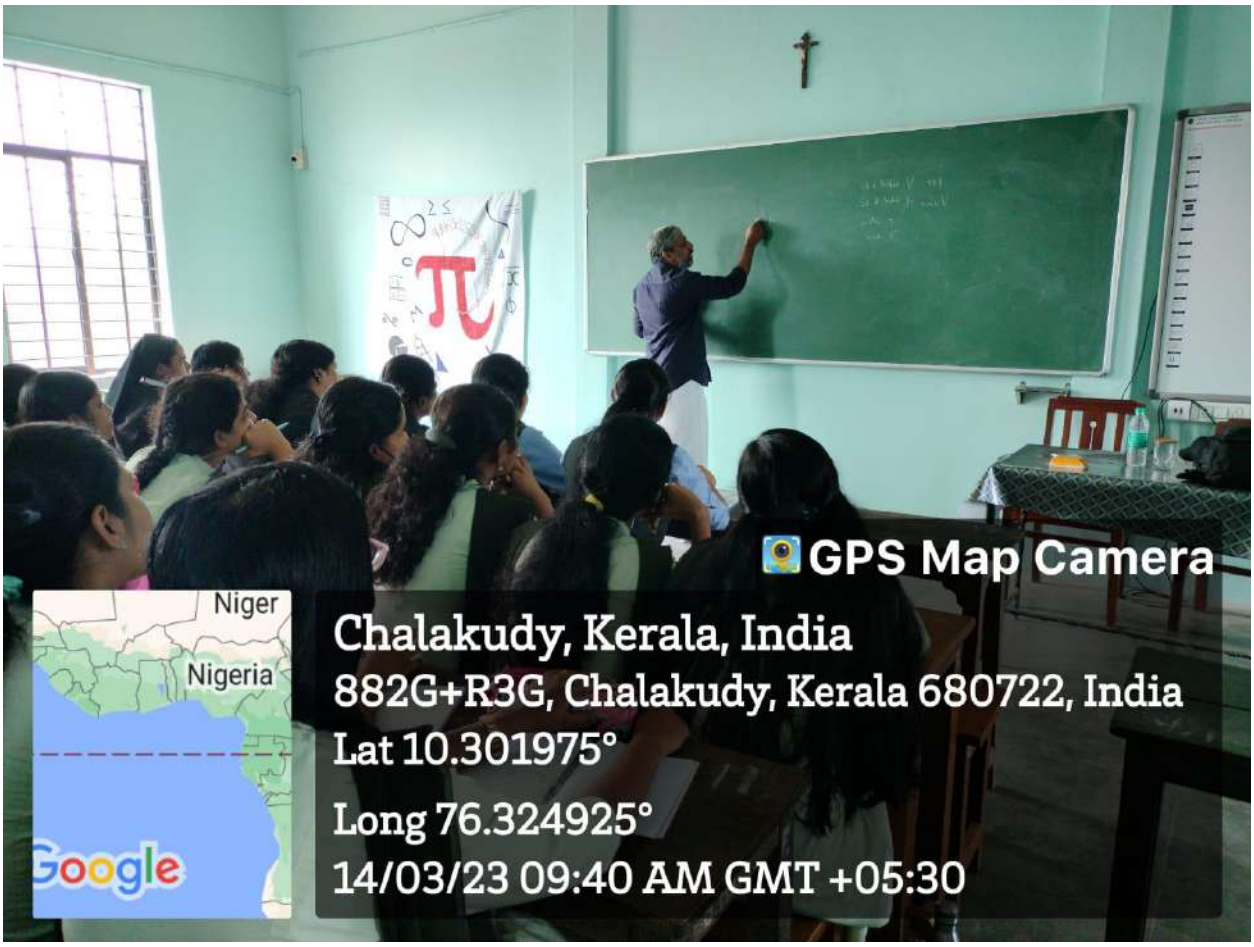
Talk given to the students by Prof. Edwin Thomson

Pi Day Celebrations
March 14 2023

The Department of Mathematics celebrated Pi Day on 14-03-2023. A talk was arranged for the students in which Shri. Albert Antony T of PMGC, Chalakudy served as the resource person. The topic of the talk was Linear Algebra. The students were given a basic idea about the subject and its application in various fields of mathematics. The students participated actively clearing all their doubts during the session.



Brochure of the Program



Resource person Shri. Albert Antony T delivering the talk

List of volunteers

1. Christy Shaji
2. Anju Antony
3. Akshara K C
4. Athulya Joy
5. AnnMaria
6. Hamnah Ummer

List of Participants

1. Akshara K C
2. Aleena Wilson
3. Anaghakrishna K U
4. Anju Antony
5. Ann Maria Varghese
6. Aryalakshmi N A
7. Ashna Varghese
8. Athulya Joy
9. C G Anjana
10. Christy Shaji
11. Devika M S
12. Hamnah Ummer K K
13. Jeneesha Suresh
14. Megha Viswanadh
15. Nigitha Thomas
16. Rosna Davis
17. Sneha Shaji
18. Abhyrami C
19. Akhila Madhu
20. Athira S Nair
21. Dhilsha Rajeev
22. Irfana K
23. Kripamaria
24. Maria Joshna
25. Naja Latheef
26. Vishnumaya E

MERCY HOME VISITS- EXTENSION ACTIVITY

As part of extension activity the students visit an orphanage Mercy Home and provide the inmates with free tuition in Mathematics. Every weekend Students volunteer themselves to visit the place and help them in their studies. A group of 5 to 6 students visit the orphanage and help the children in their studies. Special days are spent with these children to bring about some joy in their lives. The students enthusiastically participate in every activity which helps in instilling in their minds a commitment to the society.

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2. Aleena Wilson
3. Anaghakrishna K U
4. Anju Antony
5. Ann Maria Varghese
6. Aryalakshmi N A
7. Ashna Varghese
8. Athulya Joy
9. C G Anjana
10. Christy Shaji
11. Devika M S
12. Hamnah Ummer K K
13. Jeneesha Suresh
14. Megha Viswanadh
15. Nigitha Thomas
16. Rosna Davis
17. Sneha Shaji

I M.SC MATHEMATICS

1. Abhyrami C
2. Akhila Madhu
3. Athira S Nair
4. Dhilsha Rajeev
5. Irfana K K
6. Kripamariya
7. Maria Joshna M J
8. Naja Latheef A T

9. Vishnumaya E



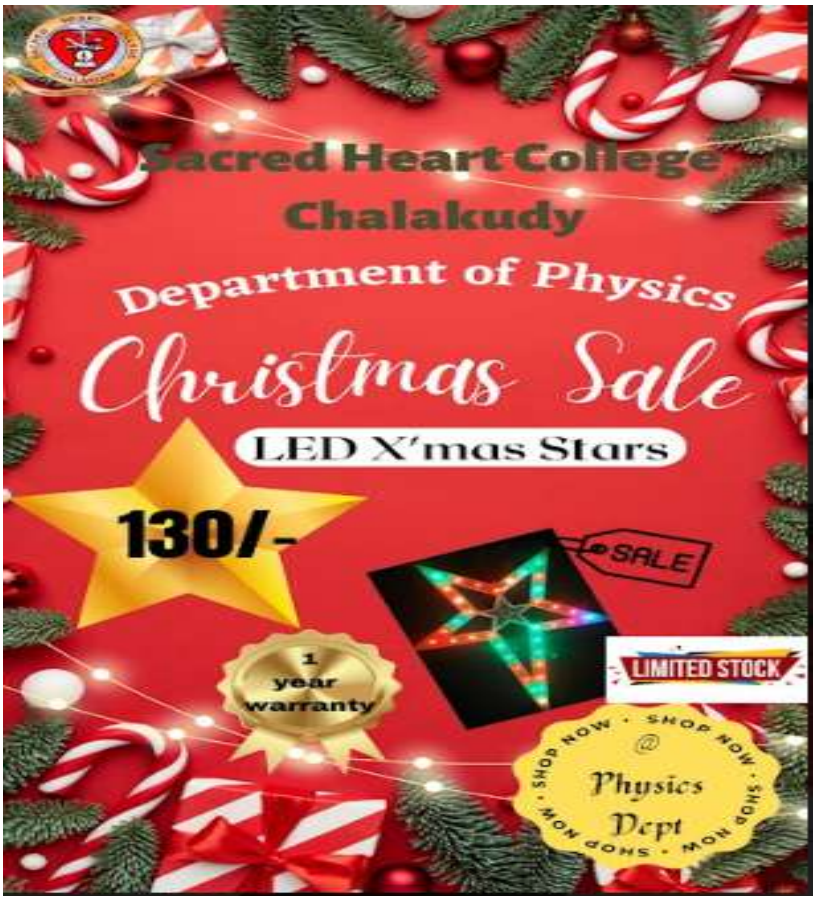
Students helping the inmates of Mercy home in their studies by providing them with free tuition.



Christmas celebration with the children of Mercy home

WORKSHOP ON LED STAR MAKING

As a part of Skill development training programme,Department of physics conducted LED star making workshop on 01-12-2022 for I DC,II DC,IMSc physics students.They were given training to assemble LED Stars of different patterns.The programme was held at BSc physics lab. Ms. Fency K.F, Faculty of the department and lab technician Mr. Jaison Thomas gave the students the required instructions and guidance. The sale of the stars was inaugurated by Dr. Sr. Irene.20 LED stars were sold to the students and staff of the college. The workshop enhanced the practical implementation of the knowledge to the students and also gave a small idea on marketing their skills.

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LED Star Making Workshop 2022 Department of Physics, SH College







LIST OF PARTICIPANTS

SI .NO	NAME	CLASS
1	ANAGHA SURESH M	I MSc PHYSICS
2	ANUPRIYA K M	I MSc PHYSICS
3	LITTY THOMAS	I MSc PHYSICS

4	MARIN JOSE	I MSc PHYSICS
5	GOURI S	I MSc PHYSICS
6	SOUMYA CHARLY	I MSc PHYSICS
7	HIBA SHERIN	I MSc PHYSICS
8	VINEESHA BABU	I MSc PHYSICS
9	ADHINANDA M NAIR	I DC PHYSICS
10	ANJALI K	I DC PHYSICS
11	ANMARIYA BINOJ	I DC PHYSICS
12	ANNA JOSLIN	I DC PHYSICS
13	ARYALAKSHMI C S	I DC PHYSICS
14	DEVIKA SIVANAND	I DC PHYSICS
15	FARSANA K S	I DC PHYSICS
16	JERIL JOHNSON	I DC PHYSICS
17	KRISHNAPRIYA E R	I DC PHYSICS
18	SAVINA K I	I DC PHYSICS
19	SHANA NESRIN K A	I DC PHYSICS
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21	AISWARYA P A	II DC PHYSICS
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24	ANGEL ROSE BAIJU	II DC PHYSICS
25	ANN MARY JOY	II DC PHYSICS
26	DEVIKA K S	II DC PHYSICS
27	GOPIKA A M	II DC PHYSICS
28	MEGHA KS	II DC PHYSICS
29	NANDANA MURALI	II DC PHYSICS

30	SETHULAKSHMI P M	II DC PHYSICS
31	SHAHIMA AZAD	II DC PHYSICS
32	SWATHI SAJAN	II DC PHYSICS
33	VAFA MARIYAM TP	II DC PHYSICS
34	REVATHY MENON	II DC PHYSICS

Urja kiran 2023

Energy Club and Brain Society (NGO), in association with Energy Management Centre, Kerala and Centre for Environment and Development, organized Energy Conservation Awareness Seminar on 19/01/2023 in Clare Hall. Mr. T. J. Saneesh Kumar Joseph, MLA, Chalakudy constituency, inaugurated the function. Mr. A.V. Thomas, Director of Brain Society, welcomed the gathering. The College Principal, Dr. Sr.Irene presided over the function. Ms. Fency K.F., Assistant Professor, Department of Physics felicitated the occasion. The session was attended by Mr. Alan Sebastian, an EMC resource person. The talk was really informative. The topic of different energy sources and techniques to conserve them was covered. The seminar also underlined the necessity of adopting an energy-conserving lifestyle. Adv. K.R.Ratnakumar, Legal Counsellor of Brain Society proposed the vote of thanks.





LIST OF PARTICIPANTS -URJA KIRAN 2022-23

Sl. No.	NAME	PHONE NUMBER	EMAIL ID	CLASS
1. 1	Anmariya Binoj	9061042406	anmariyabinoj@gmail.com	I DC PHYSICS
2	Sivadha	7559076564	Sivadhakalarikkal@gmail.com	I DC PHYSICS
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13	Sneha Shaju	9562401011	snehashaju002@gmail.com	III DC CHEMISTRY
14	Sandra M A	8590495760	sandraashokan24@gamil.com	III DC CHEMISTRY
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18	MEGHA PP	+919207954329	meghappkkv@gmail.com	III DC CHEMISTRY
19	Amrutha. T K	8590497343	amuthatkammu02@gmail.com	III DC CHEMISTRY
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21	Sincy V J	9496955586	sincyvj20@gmail.com	III DC ZOOLOGY
22	Sreelakshmy R	9188559030	rsreelakshmi005@gmail.com	III DC ZOOLOGY
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24	Anupama Rajan	8075117243	anupamarajan99@gmail.com	III DC ZOOLOGY
25	Athira krishnan s	8590393324	athirakrishnanmpm@gmail.com	III DC ZOOLOGY
26	Pavithra r menon	8589084695	rmenonpavithra@gmail.com	III DC CHEMISTRY

27	Jaishna E.M	9847684946	Jaishnamanoharan2002@gmail.com	III DC CHEMISTRY
28	Anakha K A	9539604539	anakhaka123@gmail.com	III DC ZOOLOGY
29	Anjana P S	9400503352	anjanaps1234@gmail.com	III DC ZOOLOGY
30	Lavanya.p.s	9995801214	lavanyaithiri01@gmail.com	III DC ZOOLOGY
31	Nandhana AP	7306190082	nandhanaap@gmail.com	III DC ZOOLOGY
32	Shana Nesrin K A	9744823844	shananesrin9@gmail.com	I DC PHYSICS
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34	Devika sivanand	8921317503	devikasivanand123@gmail.com	I DC PHYSICS
35	Safa C V	7592870013	cvsafa79@gmail.com	I MSC PHYSICS
36	Farsana.k.s	9562168639	farzanasanu35@gmail.com	I DC PHYSICS
37	Ambika Reen Babu	8547070948	ambikareen@gmail.com	III DC PHYSICS
38	ANNA JOSLIN	6282030525		I DC PHYSICS
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40	VINEESHA BABU	9744703881	vineeshababu007@gmail.com	I MSC PHYSICS

41	MARIN JOSE	9188582645	mj8122000@gmail.com	I MSC PHYSICS
42	Anaswara.N.U	9605867445	anaswaranu314@gmail.com	III DC ZOOLOGY
43	Shincy K B	8921880522	shincykbenny@gmail.com	III DC ZOOLOGY
44	Anna Jose	8592832334	annajose941@gmail.com	III DC PHYSICS
45	Fathima Riyana K	8157843229	friyana137@gmail.com	III DC ZOOLOGY
46	Agna Rose Raju	8590746287	agnaroseraju02@gmail.com	III DC PHYSICS
47	Anjali.K	9048516612	x1anjaliks747@gmail.com	I DC PHYSICS

Seminar on "Exciting Scientific Research-A Career Option" Organized by the Department of Physics on 20/12/2022

Department of Physics organized a career-oriented seminar on **"Exciting Scientific Research-A Career Option"** along with the Department Association "SHARP" inauguration on 20th December 2022. Dr N. Raghu, Director, the Center for Materials for Electronic Technology (CMET), Thrissur was the resource person. Rev. Dr. Sr Irene, Principal inaugurated the programme. The purpose of the seminar was to make awareness of career and research opportunities in physics among the students. Ms Revathy Menon delivered the welcome speech.

The session began with a brief introduction to science and physics and their applications. Resource person highlighted various achievements in science, specifically a major breakthrough by Dr A.Seema, a scientist from CMET Thrissur, who invented a low-cost bra that detects breast cancer. He also pointed out the research opportunities for students in CMET and mentioned various competitive exams for pursuing careers in research fields. 64 students attended the session. The session was very informative and many students asked their queries regarding the research areas which were explained well during the session. The students responded positively and requested to conduct more career-oriented seminars.

Image 1: Resource Person, Dr. N.Raghu delivering the Talk on 20/12/2022





BROCHURE

SACRED HEART COLLEGE, CHALAKUDY

PHYSICS ASSOCIATION "SHARP"

INAUGURATION

Date: 20th December 2022 Time: 9.15 am - 1.00 pm Venue: Clare Hall

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Programme Schedule

Prayer	: Ms. Gauri T S
SHARP Report	: Ms. S M Chindha *(Association Secretary)*
Welcome Address	: Ms. Ayisha Farheen *(III DC Physics Representative & College General Secretary)*
Presidential Address	: Dr. Sr. Irene *(Principal, S H College, Chalakudy)*
Inauguration	: Dr. N Raghu *(Director, C-MET, Thrissur)*

Release of Newsletter "PHYNEWS"

Honouring the Rank Holder

Prize Distribution

Felicitations	: Dr. Tessy K L *(Associate Professor & HOD, Dept. of Zoology)*
	: Ms. Anna Julia B.Veliyan *(College Chairperson)*
Vote of thanks	: Ms. Arshna Pullikudi *(MSc Physics Class Representative)*

****

Talk by Dr. N Raghu *(Director, C-MET, Thrissur)*

****

20 DECEMBER 2022

SACRED HEART COLLEGE FOR WOMEN, CHALAKUDY

DEPARTMENT OF PHYSICS

SHARP INAUGURATION 2022-2023



CHIEF GUEST

DR. N RAGHU.
DIRECTOR, C-MET,
THRISSUR

TUESDAY, 9 : 15 AM

@CLARE HALL

SACRED HEART ASSOCIATION OF ROYAL PHYSICS

LIST OF PARTICIPANTS

SI .NO	NAME	CLASS
1	ANAGHA SURESH M	I MSc PHYSICS
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5	SAFA C V	I MSc PHYSICS
6	SOUMYA CHARLY	I MSc PHYSICS
7	VINEESHA BABU	I MSc PHYSICS
8	AIBEL JOHN	II MSc PHYSICS
9	AMEESHA K V	II MSc PHYSICS
10	ANILA K J	II MSc PHYSICS
11	ARSHNA PULLIKKUDI	II MSc PHYSICS
12	RHEBA SURESH	II MSc PHYSICS
13	RITTY LONAPPAN	II MSc PHYSICS
14	ADHINANDA M NAIR	I DC PHYSICS
15	ANJALI K	I DC PHYSICS
16	ANMARIYA BINOJ	I DC PHYSICS
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37	SWATHI SAJAN	II DC PHYSICS
38	VAFA MARIYAM TP	II DC PHYSICS
39	REVATHY MENON	II DC PHYSICS
40	ABHIRAMI K.H	III DC PHYSICS
41	ABIA CLEETAUS	III DC PHYSICS
42	AGNA ROSE RAJU	III DC PHYSICS
43	AMBIKA REEN BABU	III DC PHYSICS
44	ANAGHA A S	III DC PHYSICS
45	ANISHA P V	III DC PHYSICS
46	ANJANA SAJEEVAN	III DC PHYSICS
47	ANJANA A B	III DC PHYSICS
48	ANNA JOSE	III DC PHYSICS
49	ANU DASAN M D	III DC PHYSICS
50	ARATHI K B	III DC PHYSICS
51	ARYA SUNNY	III DC PHYSICS
52	AYANA BOSE P C	III DC PHYSICS
53	AYISHA FARHEEN ARIPURAM A B	III DC PHYSICS

54	BLESSY BABU	III DC PHYSICS
55	GAURI T S	III DC PHYSICS
56	JYOTHI M S	III DC PHYSICS
57	LAKSHMI THILAKAN	III DC PHYSICS
58	LULUVA V S	III DC PHYSICS
59	NIKITHA K R	III DC PHYSICS
60	NIYA C V	III DC PHYSICS
61	SANDRA SANTHOSH	III DC PHYSICS
62	SATHEERTHA T S	III DC PHYSICS
63	SHAHNA C T	III DC PHYSICS
64	SONA MARIYA	III DC PHYSICS

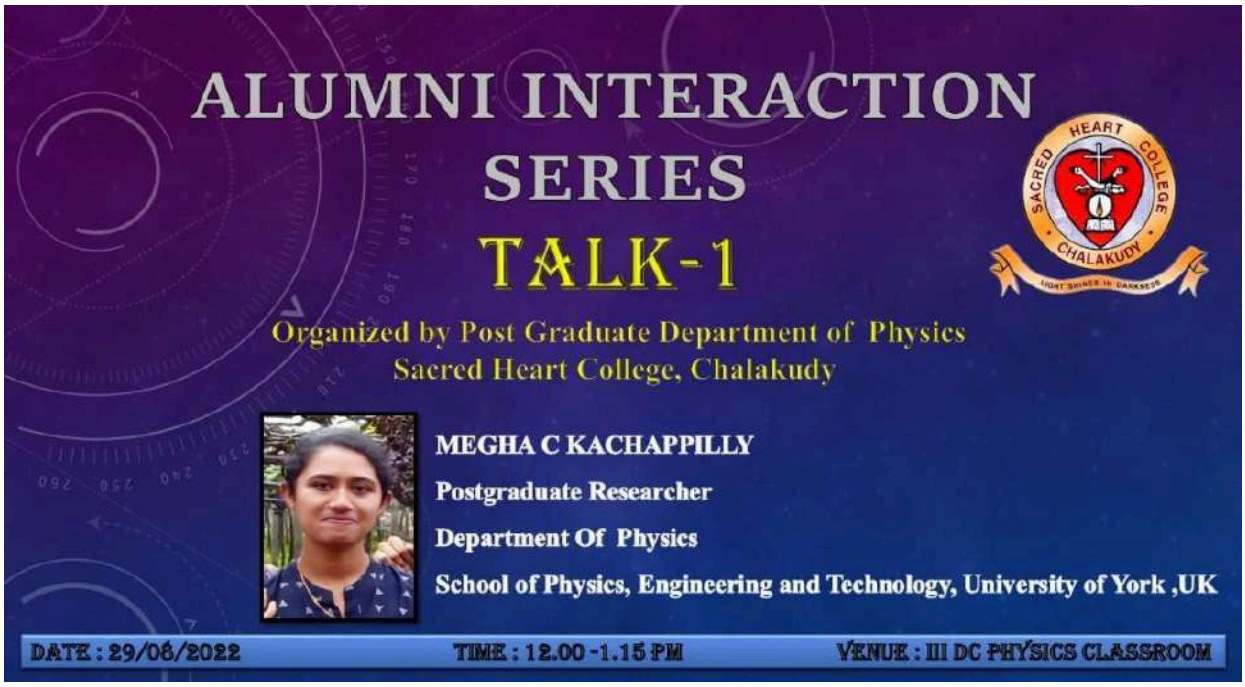
ALUMNI INTERACTION SERIES

TALK I

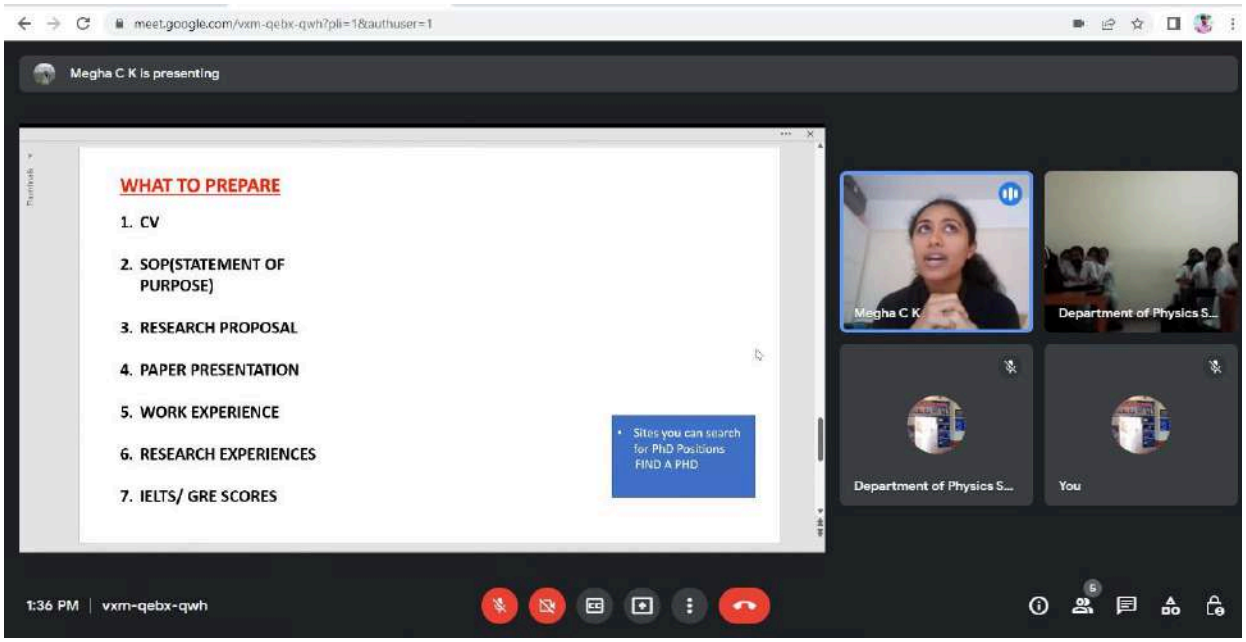
“CAREER OPPORTUNITIES IN INDIA & ABROAD”

Alumni Interaction Series is an initiative from the Physics Department which gives students the opportunity to listen to the experiences of their seniors about their journey and experiences in building up the career. This August, we welcomed our alumni, Ms. Megha C Kachappilly, Post Graduate Researcher, School of Physics, Engineering and Technology, University of York, UK, to deliver a session on “Career Opportunities in India & Abroad” on 29th August 2022 from 1:00 to 02:00 pm for the BSc and MSc Physics Students. She guided the students by sharing her experiences. She discussed the various job opportunities across the country in the field of Physics Research and other job options. She also talked about how to have a “clear plan” and “statement of purpose” for those who wish to choose their career abroad. She discussed various scholarships and financial requirements in securing a job abroad. She explained the techniques to build a good CV which helps in cracking courses in top Universities across the world. It was an interactive session with a lot of enthusiasm shown by students.

BROCHURE:


ALUMNI INTERACTION SERIES
TALK-1
Organized by Post Graduate Department of Physics
Sacred Heart College, Chalakudy
MEGHA C KACHAPPILLY
Postgraduate Researcher
Department Of Physics
School of Physics, Engineering and Technology, University of York ,UK
DATE : 29/08/2022
TIME : 12.00 -1.15 PM
VENUE : III DC PHYSICS CLASSROOM

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Megha C K is presenting
WHAT TO PREPARE
1. CV
2. SOP(STATEMENT OF PURPOSE)
3. RESEARCH PROPOSAL
4. PAPER PRESENTATION
5. WORK EXPERIENCE
6. RESEARCH EXPERIENCES
7. IELTS/ GRE SCORES
Sites you can search for PhD Positions
FIND A PHD
Megha C K
Department of Physics S...
Department of Physics S...
You
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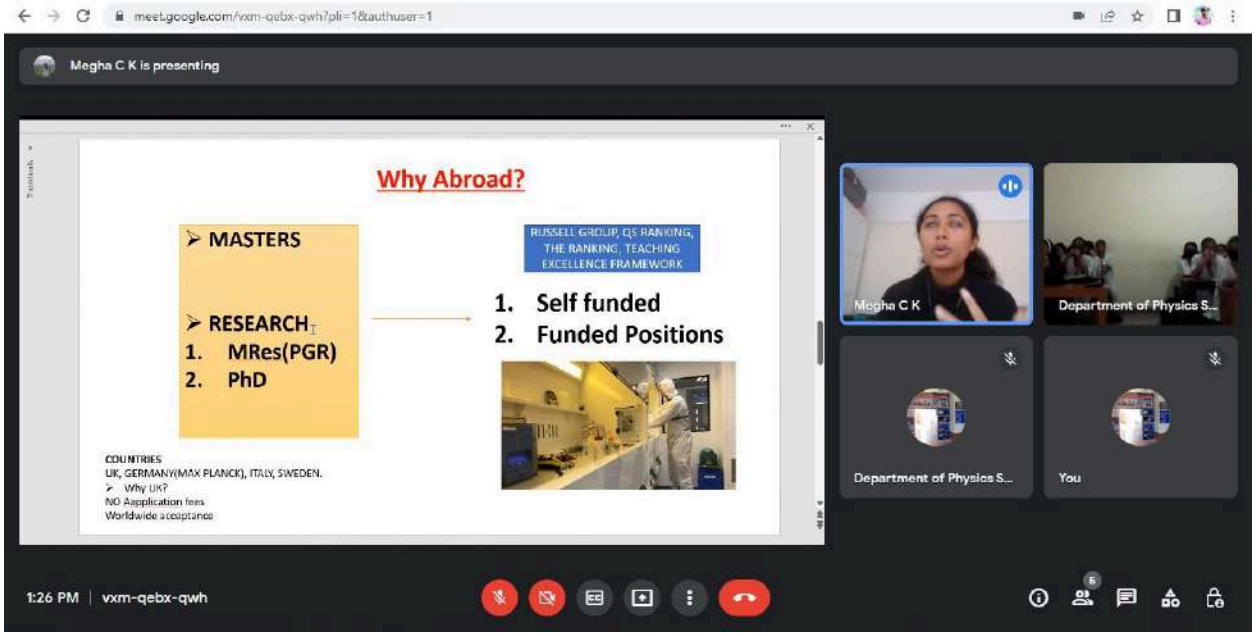
meet.google.com/vxm-qebx-qwh?pli=1&authuser=1
Megha C K is presenting
Why Abroad?
MASTERS
RESEARCH
1. MRes(PGR)
2. PhD
RUSSELL GROUP, QS RANKING, THE RANKING, TEACHING EXCELLENCE FRAMEWORK
1. Self funded
2. Funded Positions
COUNTRIES
UK, GERMANY(MAX PLANCK), ITALY, SWEDEN.
Why UK?
NO Application fees
Worldwide acceptance
Megha C K
Department of Physics S...
Department of Physics S...
You
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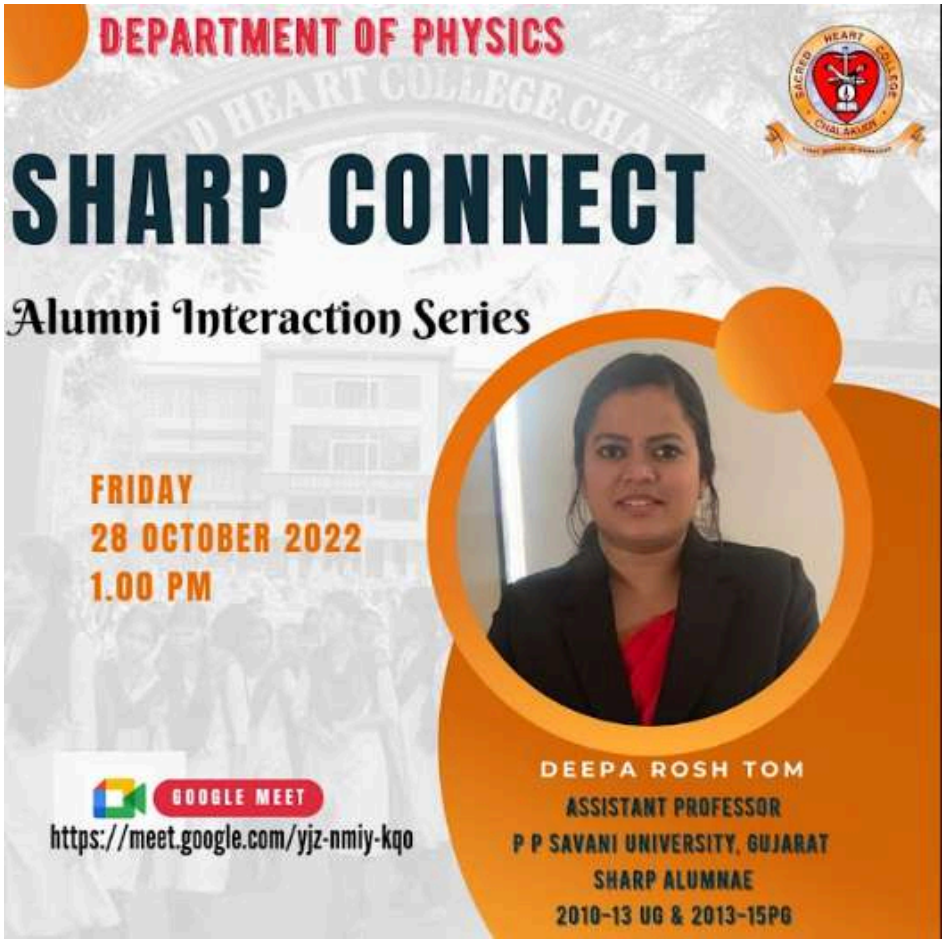
ALUMNI INTERACTION SERIES

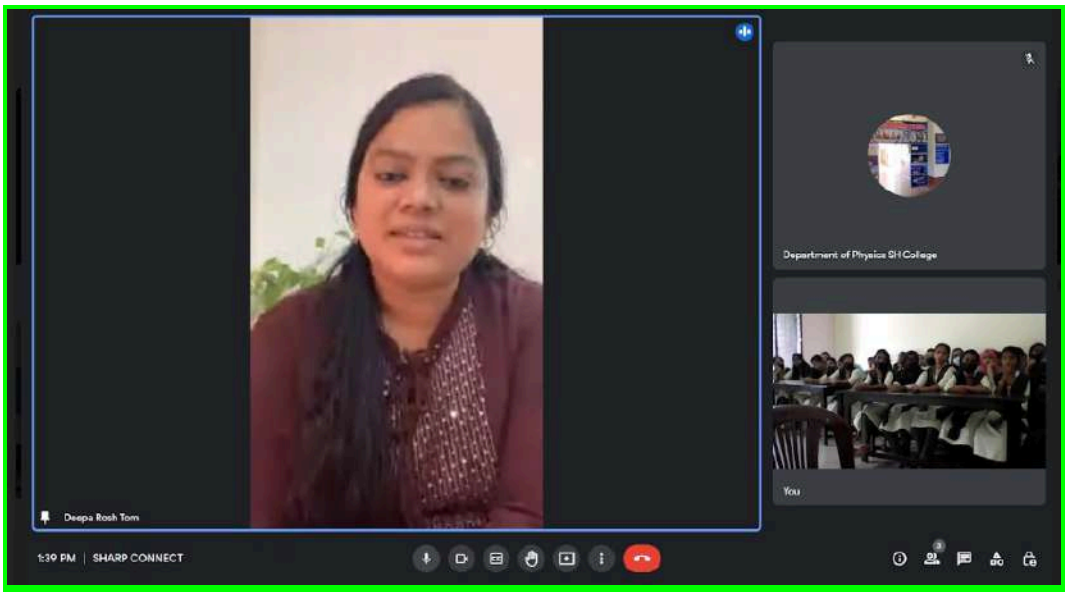
TALK II

“RESEARCH OPPORTUNITIES IN INDIA”

Alumni Connect is a significant platform which gives students the opportunity to hear from their seniors about their journey and experiences from college to the way of building their career. Department of Physics, Sacred Heart College, Chalakudy had organized the second session of Alumni Interaction Series on 28th October 2022 from 1:00 to 02:00 pm for BSc and MSc Physics Students. Ms Deepa Rosh Tom,Asst. Professor, P P Savani University, Gujarat delivered the talk on “:RESEARCH OPPORTUNITIES IN INDIA”. She guided the students by sharing her experiences throughout her research. She discussed the various research Opportunities in India, in the field of Physics.she gave a clear vision for approaching research fields, competitive exams, choosing a research guide etc. Students showed their enthusiasm by asking their doubts and queries regarding the same. The session was highly interactive and motivational.

BROCHURE:


DEPARTMENT OF PHYSICS
SACRED HEART COLLEGE
CHALAKUDY
SHARP CONNECT
Alumni Interaction Series
FRIDAY
28 OCTOBER 2022
1.00 PM
GOOGLE MEET
https://meet.google.com/yjz-nmiy-kqo
DEEPA ROSH TOM
ASSISTANT PROFESSOR
P P SAVANI UNIVERSITY, GUJARAT
SHARP ALUMNAE
2010-13 UG & 2013-15PG


Department of Physics SH College
You
Deepa Rosh Tom
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SHARP CONNECT Alumni interaction series

ALUMNI INTERACTION SERIES

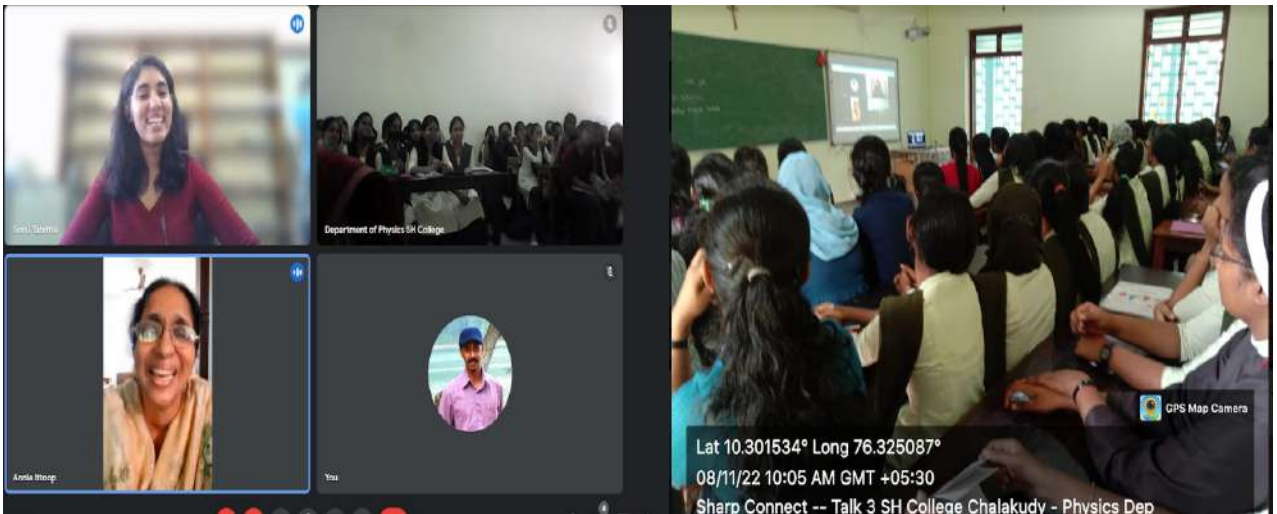
TALK III

“The world of Astrophysics”

Alumni interaction is considered as a platform to rope in alumni, periodically, to share their experience and address the current batch of students . Department of Physics, Sacred Heart College, Chalakudy had organized the Third session of Alumni Interaction Series on 8th November 2022 from 10:00 to 11:00 pm for BSc and MSc Physics Students. Dr. Sonu Tabhitha Paulson was the resource person. She delivered a session on Topic:**“The world of Astrophysics”** . Dr. Sonu Tabhitha Paulson(2009-12 B.Sc. Physics batch), Postdoctoral Researcher, Department of Astronomy, Tata Institute of Fundamental Research, Mumbai . She shared her own journey of becoming an Astrophysicist. She also motivated students to take up Astrophysics as the field of research and also guided the students about how they should plan if they want to build a career in Astrophysics.She also discussed about the various industries offering research programmes.She also mentioned the alternative career opportunities for Physics students. The session was very interactive and students asked queries, which was well explained by the resource person .Students thoroughly enjoyed this extremely informative session.

Brochure


SACRED HEART COLLEGE
CHALAKUDY
Dr. Sonu Tabitha Paulson
SHARP CONNECT
ALUMNI INTERACTION SERIES
TALK 3
Dr. Sonu Tabitha Paulson
Astrophysicist|Postdoc Researcher
Department of Astronomy and Astrophysics
Tata Institute of Fundamental Research,Mumbai
Sacred Heart College: BSc. Physics 2009-12 batch
DATE November 8 ,2022
TIME 10:00 AM -11:00 AM
VENUE ||| BSc. Physics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Sharp Connect -- Talk 3 SH College Chalakudy - Physics Dep


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SHARP CONNECT Alumni interaction series
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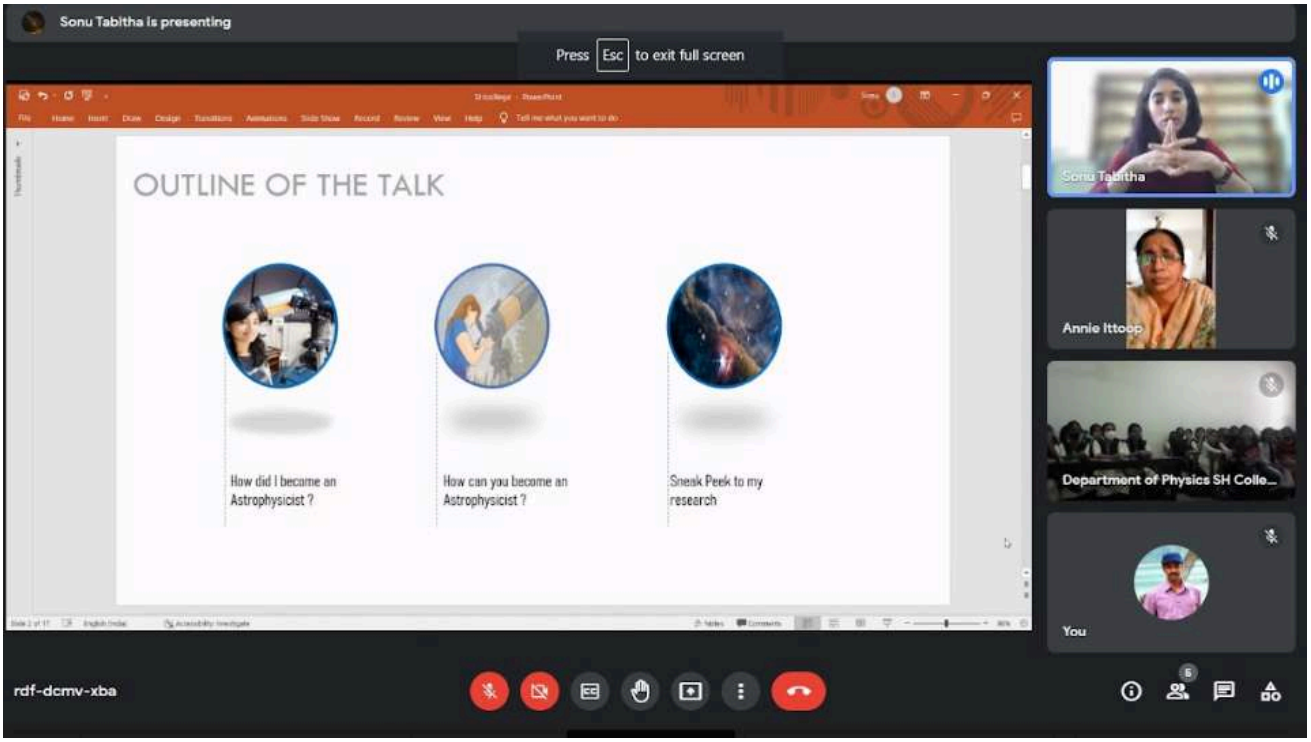
08/11/22 10:10 AM GMT +05:30
Sharp Connect -- Talk 3 SH College Chalakudy - Physics Dep


Sonu Tabitha is presenting
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OUTLINE OF THE TALK
How did I become an Astrophysicist ?
How can you become an Astrophysicist ?
Sneak Peek to my research
Sonu Tabitha
Annie Ittoop
Department of Physics SH Colle...
You
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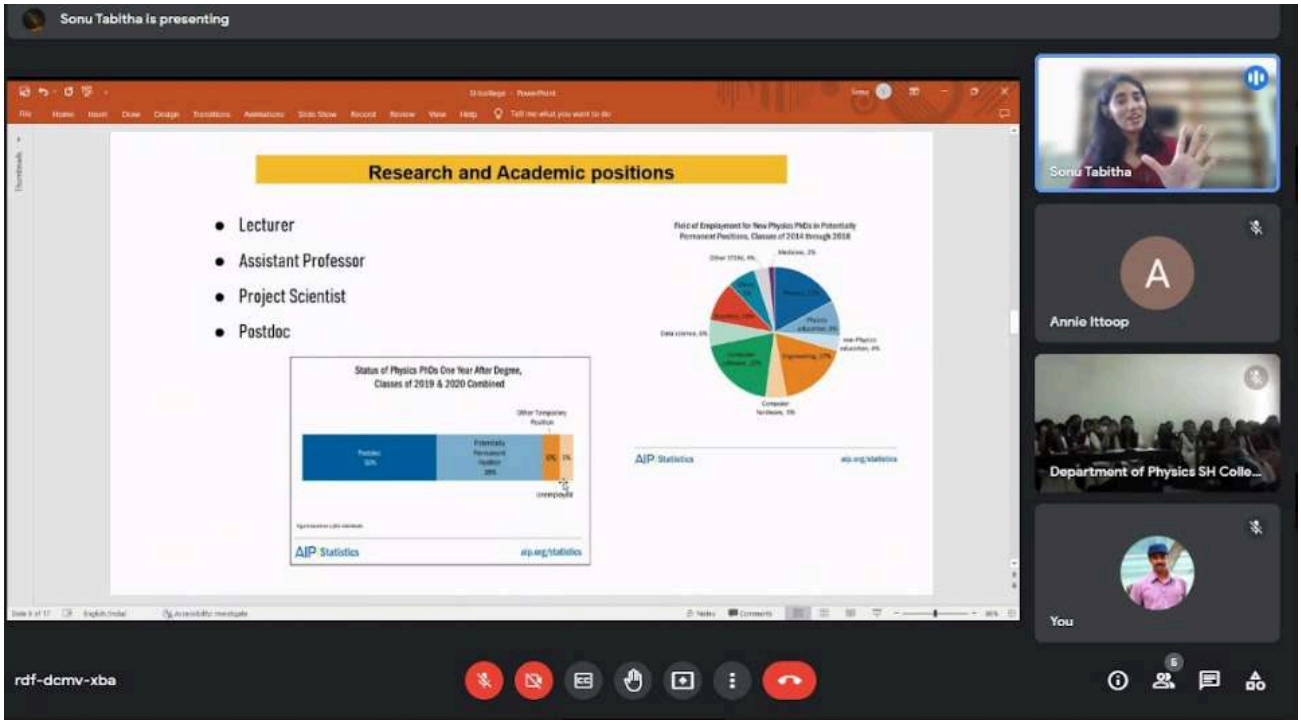
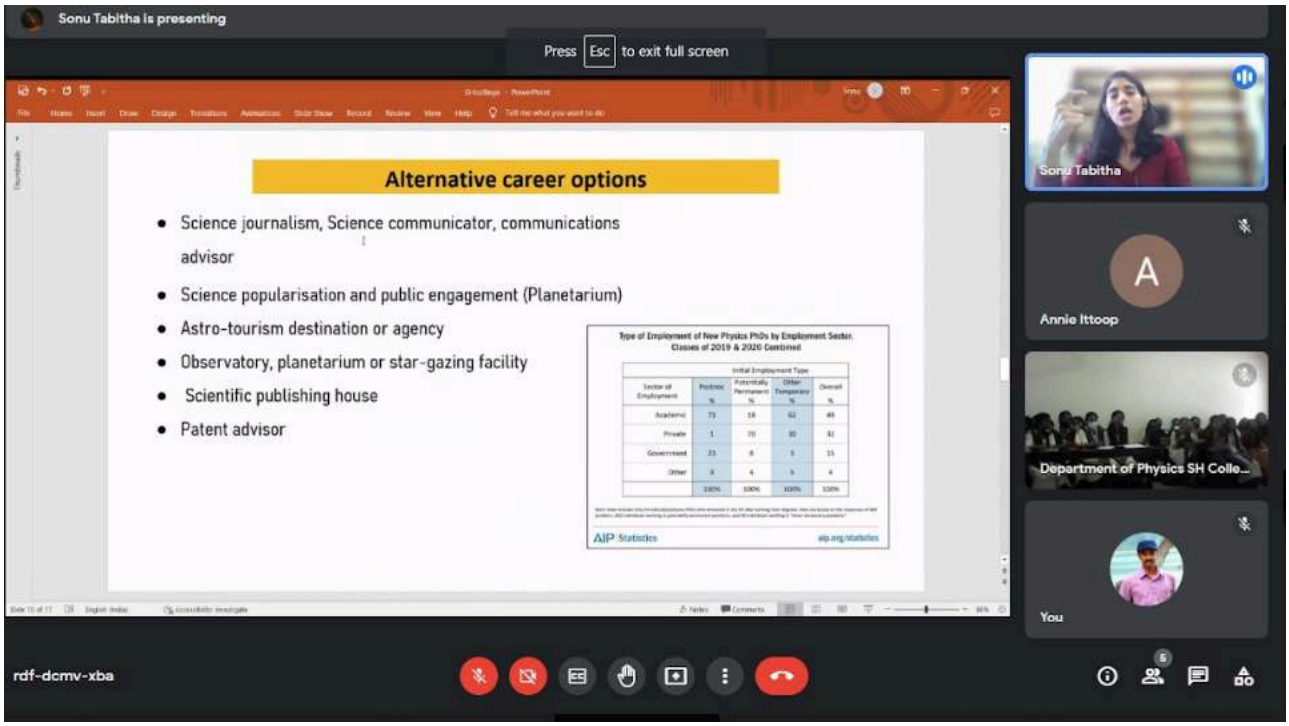

Sonu Tabitha is presenting
Research and Academic positions
Lecturer
Assistant Professor
Project Scientist
Postdoc
Status of Physics PhDs One Year After Degree, Classes of 2019 & 2020 Combined
AIP Statistics
aip.org/statistics
Field of Employment for New Physics PhDs in Potentially Permanent Positions, Classes of 2014 through 2018
AIP Statistics
Sonu Tabitha
Annie Ittoop
Department of Physics SH Colle...
You
rdf-dcmv-xba


Sonu Tabitha is presenting
Press Esc to exit full screen
Alternative career options
Science journalism, Science communicator, communications advisor
Science popularisation and public engagement (Planetarium)
Astro-tourism destination or agency
Observatory, planetarium or star-gazing facility
Scientific publishing house
Patent advisor
Type of Employment of New Physics PhDs by Employment Sector, Classes of 2019 & 2020 Combined
AIP Statistics
aip.org/statistics
Sonu Tabitha
Annie Ittoop
Department of Physics SH Colle...
You
rdf-dcmv-xba

Study visit to Cochin University Research Labs 2023

A visit to Cochin University of Science and Technology (CUSAT) was conducted on 25th January 2023, as a part of CUSAT Open House, SASTHRAYAAN 2023 by the third-year BSc Physics students along with the Faculty in-charge Ms. Fency. K F. CUSAT organized this SASTHRAYAAN 2023 to showcase the vibrant and active research activities carried out in its various departments. The state-of-the-art facilities available in CUSAT were exhibited with live demonstrations, working models and presentations. 22 students were actively involved in this educational visit and they explored various labs of the International School of Photonics and around 14 labs of the Department of Physics, CUSAT. Students got valuable exposure to various cutting-edge research areas in Physics. Multiple exhibition stalls were arranged at the CUSAT Seminar complex along with illuminating visits to numerous research laboratories and departments on the CUSAT campus. This visit was organised as a part of visit to research institutes.





Dept of Physics

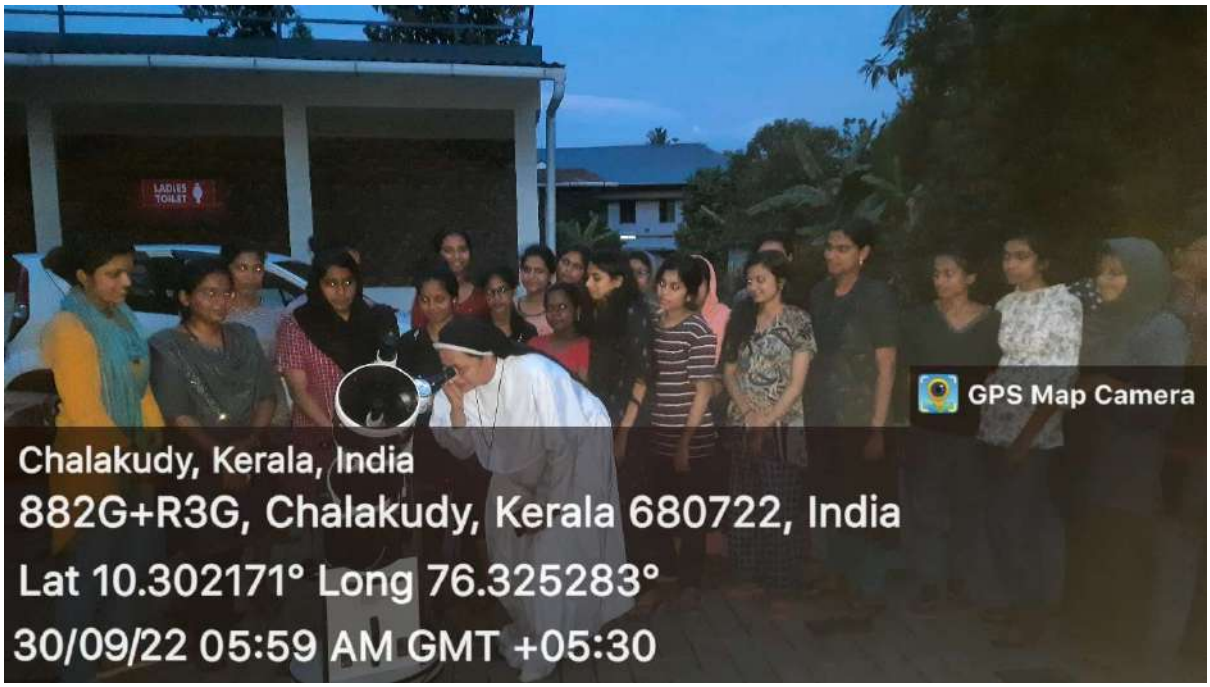
Student Projects

As a part of the M.Sc. Physics programme the students are required to submit a project as a part of their dissertation work. The students of the department collaborated with other colleges for their project. The department provides assistance as and when required in the course of their project.After the completion of the project students present their project in the department.This helps students to enhance their research aptitude.

World Space Week 2022

Star gazing camping (30-09-2022)

Department of Physics celebrated the World Space Week 2022 with different programs under the theme of the year is 'Space and Sustainability'. A star gazing camping was arranged near the college auditorium on 30-09-2022 with the help of Astronomical Society of Kerala(ASK). Dr. Sr. Reena Ittyachan, Principal of the college inaugurated the event. Dr. Nijo Varghese gave an introductory class on night sky watching and set the 8-inch telescope of the ASK, for observing the wonders of the night sky. Students and staff from various departments and sisters from the convent were excited after observing the craters of Moon, planet Jupiter and its four moons, Saturn etc. through the telescope. Around 63 participants were attended the event. Student were trained to identify the prominent constellations and birth stars in the sky.



Dr. Sr. Reena Ittyachan is inaugurating the sky watch camping

Brochure of the event







Students, staff and sisters are observing the celestial objects through the telescope

Participant's details

DEPARTMENT OF PHYSICS
SACRED HEART COLLEGE. CHALAKUDY
World Space Week 2022
Star Gazing Camping.

30.09.2022 6.00 - 8.30 PM.

SL No.	Name.	Department/Address	Phone number	Signature.
1.	Hamnah Ummer k.k	Mathematics	8606577480	
2.	Jeena Chandran	Chemistry	9562435873	
3.	Arshna pullikkudi	Physics	8301930129	
4.	Rheba suresh	"	9497859035	
5	Sr. Nikhila paul	"	9526501993	
6.	Akshaya Manimohan	Zoology	8593889607	
7.	Athira K.A	M.com	9947178794	
8.	Ardra P. Sunil	Zoology	9744658553	
9	Jisa paul	History	6282374283	
10	Khadeeja Sabnac	History	7034873202	
11	SHAHNA.C.T	PHYSICS	7593993756	
12	BLESSY BABU	PHYSICS	9778352344	
13.	Naja.C.P	History	9747432710	
14.	Nafeesathbi B.K	English	8547187442	
15	Dhanalakshmi. M	ECONOMICS	9567028223	
16.	Sangeetha. V	Economics	8075890982	
17	Shifna Shireen KP	History	8086448492	
18.	Akshaya. P.	~~English~~ English	8590778492	
19	Thankajakshi. V.P	History	9526506279	

Sl No.	Name	Department/ Address	phone Number	Signature
20	Fathima Rujena.K	III rd DC Zoology	8157843229	
21	Shafna Jasmin.P	III rd DC History	9400882873	
22	Megha PP	III rd DC chemistry	9207954329	
23	Anupama Rajan	III rd DC zoology	9037325914	
24	Angel Peba	III rd DC chemistry	6238396005	
25	Linu. E.S	III rd DC Zoology	8606123171	
26	Athulya M Rathnak umar	III rd DC English	9188727010	
27	Aparna.M.S	III rd DC B.Com finance	7592080191	
28	Sangeetha.K	III rd DC BA English	9037888465	
29	Thasneha.CB	III rd DC BA Economics	8714230467	
30	MEGHA.V	III rd DC BA Economics	8129553309	
31	Athira krishnan.S	III rd DC Zoology	8590893324	
32	Nandhana A.P	III rd DC zoology	7306190082	
33	Gowri kk	III rd DC zoology	7356848647	
34	Naja.A	II nd MSc Psychology	6282826874	
35	Anna Rose Diju	"	6282721364	
36	Nadha.A	"	6282826874	
37	Chandana.K	"	9526260906	
38	Elsmary Joseph	"	7012122916	
39	Athira Santhosh	"	8891182262	
~~40~~	~~Isin Mariya K~~	"		

SL No.	Name	Department/ Address	phone Number	Signature
	World Space Week 2022. Star Gazing Camping. 30.09.2022		6.00 — 8.30 PM.	
40 (1)	Smitha Davis	Mathematics	8156977780	
41 (2)	Savio Shinto Koodal		"	Savio
42 (3)	Helen Saju	IInd BCommerce	9526182548	
43 (4)	Amin Mariya.k	Psychology	9496838915	
44 (5)	Farsana.K.S	BSC physics	9562168639, 8113974216	Farsana
45 (6)	Devika Sivanand	Dst year	"	
46 ~~7~~	~~AISHA. A~~	~~IIDC BTMSC~~	9946660142 8921317503	Devika
46 (7)	AISHA. A	IIDC IMSC PSYCHOLOGY	9446952495	
47 (8)	CHINDHA S.M	IIDC BSC PHYSICS	9544487112	
48 (9)	Megha.k.s.	"	8089730477	
49 (10)	Anjana: A	BA. English	7510893896	
50 (11)	Rabiya c	MSC. Mathematics	7594803393	
51 (12)	Theertha Krishna	Msc chemistry	7306345141	
52 (13)	Krishnapriya.V	B.A. English (2nd year)	9207508533	
53 (14)	Nandana Nair	"	7012742250	
54 (15)	Deepthi.K	Bsc chemistry	9447264325	
55 (16)	Anagha Suresh M	MSc physics	9072028679	
56 (17)	Sneha C.S	Msc Chemistry	7561063303	
57 (18)	SREEKUTTY.K.U	IInd BA Economics	7559802092	
58 (19)	Devika K.G	IIBA. History	8590874259	
59 (20)	Shuna mol.V	IInd BA Economics	9995302660	
260	Angel Rose K.S	1st year mcom	8921405675	
261	mukila k.c	1st year mcom	8138801268	
262	ANUSREE T.V	1st Msc Zoology	9207362213	
263	Shaniba.p	" " chemistry	7034580665	

World Space Week 2022

Public talk on Wonders of the sky (12-10-2022)

Department of Physics organized a public talk on Wonders of the sky on 12-10-2022 in the college auditorium. Dr. Nijo Varghese handled the class and around 175 interested students from various departments had attended. Topics like basics of armature astronomy, constellations, Zodiac, birth stars, horoscope, galaxies etc. were discussed.



Dr. Nijo is delivering the talk



Participant's details

DEPARTMENT OF PHYSICS
SACRED HEART COLLEGE, CHALAKUDY
World Space Week, 2022
Public Talk on 'Wonders of Sky' 12-10.2022

S.No.	Name	Department	Phone No.	Signature
1.	Sagarlakshmi M. Sivan	2nd qtr IMSC Psychology	8089568383	
2.	Ganga. T. S	"	7510244329	
3.	Naja. A	"	6282826874	
4.	Anakha Manoj K.P	"	9633586119	
5.	A. thira Santhosh	"	8891186262	
6.	Nadha. A	"	6282826874	
7	chandana. K	"	9526260906	
8.	Rasha	1st IMSc psychology	9895625542	
9.	Subi. A	"	9744797712	
10.	Dya Neelim Rasool. M	"	9037121905	
11.	SHAHNA. C.T	III DC PHYSICS	7593993756	
12.	Nikitha K.R	III DC physics	7561822749	
13.	Anjana Sajeevan	3rd DC Physics	9562102287	
14.	Arathi. K.B	3rd DC physics.	7025596983	
15.	Ayisha Farheen	3rd DC. physics	8086504647	
16.	Kavya. M. R	1st qr. IMSc psychology	9526170525	
17.	Harinandana. R	"	9074461479	

Sl. No	Name	Department	Ph. No.	Signature
18.	Anjali Praveen	1st year MSc Psychology	7510535950	
19.	Lakshmi. T. P	"	9446380477	
20.	Fathima Rinsha. M.P	"	9048369257	
21.	Nandana. SB	"	8075457027	
22.	Gauri Nandanan	1st year BA Eng.	7559006141	
23.	Arathy Sajeev	"	9745187027	
24.	Sruthy. CR.	"	9539678603	
25.	Sreya Venu K	"	8301915343	
26.	Lakshmi Thilakan	3 Bsc physics	7510325987	
27.	Jyothi. M.S	IIIrd Bsc Physics	9778095772	
28.	Lulava V.S	IIIrd Bsc. Physics	9048348210	
29.	Gauri. T.S	IIIrd Bsc physics	8606842312	
30.	Ayana Bose p.c.	IIIrd Bsc physics	6282813982	
31.	Abhirami KH	IIIrd Bsc. physics	9074431703	Abhirami
32.	ASHA A	II DC. PSYCHOLOGY	9446952495	
~~33.~~				
~~34.~~				

Sl. No.	Name	Department	Phone No.	Signature
3	Anjali. K	III BA English	9100680591	
4034	Anjali T S	III BA English	7306561604	
4035	Krishnan Mookambika M.V	III BA English	7012501452	
4236	Nirunjana. K.S.	III BA English	8301987682	
4337	Ranya Ashok	II nd B.com finance	7736914474	
4438	Aiswarya krishna	"	8592094436	
4539	Shreyamol. N.B	"	8086872915	
4640	Nivedhitha p. subhash	II nd BSc chemistry	9074352788	
4741	Bhavana . K	"	7736762497	
4842	Isha. P. Sunilkumar	"	9539828291	
4943	Deepthi. K	"	9447264325	
5044	Nefeesathbi B.K	III BA English	8547187442	
5145	Sangeetha. K	"	9037888465	
5246	Adya K.M.	1st B.com. finance	8086888897	
5347	Archana E.A.	"	8943908802	
5448	Lakshmi Priya P.M	I st year Ba economics	6282470859	
5549	Bhadra p.R	"	7902535418	
5650	Aiswarya. N. Mani	"	9446723934	
5751	Nimmini c.m	"	9745486519	
5852	Savina . K.I	1 st year Bsc physics	9846637423	
5953	Shana Nesrin. K.A	"	9744623844	
6054	Farsana. K.S	"	8113974216	
6155	Krishnapriya E.R	"	8281783161	
6256	Sandra Santhosh	III Bsc physics	7558088304	

S.No	Name	Department	Phone Number	Signature
63	Sathees tha. T s	BSc Physics III DC	8590128029	
64	Thahira k.r	B.A History III DC	9778307235	Thahira
65	Sahira. K.R	B.com C.A III DC	6282203736	Sahira.
66				

S.No	Name	Department	Phone number	Signature
80	Anupama MJ	BA History	9061391496	
81	Priya	BA History	9061051104	
82	Sumanya. k	BA HISTORY	8943076028	
83	Sruthi Raj. P	BA History	96 56 04 03 72	
84	krishnendu k.s	BA History	9539568061	
85	Aswathi mp.	"	8086409006	
86	Devika V.S	"	8547268223	
87	Fathima Hanna	BSc Zoology	8086353493	
88	Lakshmi. U	"	9778591758	
89	Fathimathu Shanila-pk	BA English	6235954947	
90	Shana Febin. O.B	Bsc. chemistry	7736697252	
91				
92				

Sl. No.	Name	Department	Ph. No.	Signature
60	Revathy Menon	II DC Physics	9745559739	
61	GOPIKA. A. M	IInd DC physics	9744622748	
62	Swathi Sajan	IInd DC physics	8589891909	
63	Nandana Murali	IInd DC physics	8590885484	
64	Sethulakshmi P. M	IInd DC Physics	8086304152	
65	Shahima. Azad	IInd DC physics	9207668998	
66	Sreelakshmi. K	III bcdc History	7591909689	
67	Vijisha V.V	III DC History	7736296081	
68	Anupama. K.B	III DC chemistry	8129530144	
69	Amrutha. T. K			
70	Aiswaraya krishna	III DC chemistry	8139877487	
71	Ahalya V.L	III DC chemistry	7560817680	
72	Pavithra R Menon	III DC chemistry	8589084695	
73	Jaishna E.M	III DC chemistry	9847684946	
74	Sandra M.A	III DC chemistry	8590495760	
75	Sreelakshmi E.K	III DC chemistry	9645141192	
76	Neha Shaju	I st B.COM Finance	9562401011	
77	Athulya. C.S	I st B.com. Finance	9747237604	
78	Vafa Mariyam T.P	I B.Sc Physics	9072702404	
79	Chindha S.M	"	9544487112	

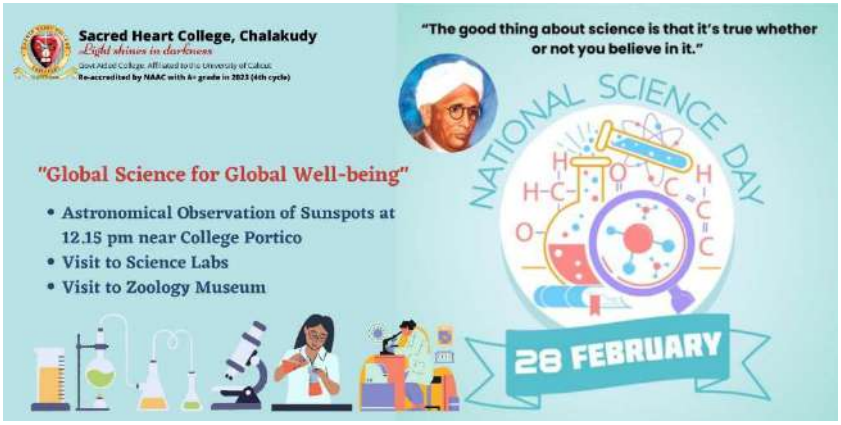
Sl.No	Name	Department/Address	Phone Numbers	Signature
92	Ameena Shamin. T	1st Bsc. Zoo / Hostel	6282391457	
93	Rajwa Zayan	1st BA. Eng. / Hostel	9744056670	
94	Maneesha. K	1st BA. Eco / Hostel	90 72 78 36 83	
95	Adithya. M.V	1st BA Eco / Hostel	9995356907	
96	Anagha. K.R	1st BA eco / chalakudy	8943036863	
97	Gopika. K.V	1st BA Eco / Hostel	9656612939	
98	Krishnapriya	1st BA ECO / kodalli	7034689217	
99	Lamiah Sadath.c	IInd Bsc Zoology / club	8281261970	
100	Anagha. p.v	II nd Bsc zoology / Kundoor	7025721287	
101	Devika T.P	II Bsc Zoology / kombidi	9048712739	
102	Aswandha mohan	II Bsc zoology / Nayarangadi	8589002973	
103	Krishnapriya pm	II Bsc zoology / Koodapatha	9562043248	
104	Anugraha M.I	I BA. English / Mattoor	8086404582	
105	ANN MARIYA JOY	3rd B.Com C.A Chalakudy	8281369063	
106	Devika Sivanand	I Bsc. physics	8921317503	
107	Anu k.G	III rd BA Economics	8330855191	
108	Lakshmi C.R	III rd BA Economics	9544238098	
109	APARNA C.S	III rd B.com CA	7025858055	
110	Vinaya Sagar V.V	III rd B.com Finance	9037668008	
111	Surya K.S.	III rd B.com Finance	9645624516	
112	Devika babu	11	9446389511	
113	Keerthana K.D	III rd BA Economics	8156952180	
114	Athira krishnan.s	III rd Bsc Zoology	8590393324	
115	Nandhana A.P	11	7306190082	
116	Anupama Rajan	11	9037325914	

Sl. No.	Name	Department	Phone No.	Signature
117	Amritha Unni	BA English	6238348055	
118	Avani.K.R	BA Economics	9662536116	
119	Athmika A.R	I[st] BA Eng	7559026491	
120	Nandhana	I[st] BCom fin.	8075536089	
121	Avani	1st Bcom fin	7025625930	
122	Aparna P.U.	1st History	9746534243	
123	Harishma P.S	1st History	8943648105	
124	Naja.C.P	IIIrd-DC History	9747432710	
125	Jisa paul	IIIrd DC. History	6282374283	
126	Aswathy M.R	IIIrd DC. History	7560934302	
127	Rajalakshmi V.A	IIIrd DC. History	8078302857	
128	Shafna Jasmin.P	IIIrd DC History	9633761484	
129	Megha.V	IIIrd DC Economics	8129553309	
130	Samika Ck.	IIIrd DC Economics	9645026127	
131	Shifna Shireen KP	IIIrd DC History	9400990492	
132	Anjana.A	IInd BA English	7510893896	
133	Sreejaya.alvin	IIIrd Bcom - CA	9562004630	
134	Fathimmathussoudha	IIIrd B.com-CA	8943645014	
135	Salini.K.R	IIIrd B.com-CA	9947878269	
136	Sreelakshmi	IIIrd B.com CA	9745061838	
137	Haripriya T.U	IIIrd B.com CA	9778345113	
138	Aswathy	IIIrd B.com CA	7356128654	
139	Vishnupriya V.R	1st Msc Chemistry	9645638785	
140	Vyshnavi Kantha	"	7356611275	
141	Anjana V.M	"	8086933789	
142	Sneha.C.S	"	7561063303	
143	Riya Rasara R.R.	"	9496477329	
144	Theertha Krishna	"	7806345141	

Sl. No.	Name	Department	Phone No.	Signature
145	Nchalakshmi K.J	B com Finance 1st year	9031355985	
146	Aryanandha K.S	Bcom Finance 1st year	9645624516	
147	Amna Riyas	Bcom Finance 1st year	9961725409	
148	Meghana. P.S	B com Finance 1st yr	9778162665	
149	Lakshmipriya C.J	B com Finance 1st yr	7558870619	
150	Anjana P Giri	Bcom finance 1st yr	8714517697	
151	Pavithra K.S	Bcom finance 1st yr	8547870687	
152	Sneha Shaju	IIIrd Dc chemistry	9562401011	
153	UTHARA TB	IIIrd Dc Chemistry	9745002556	
154	Megha PP	IIIrd Dc chemistry	9207954329	
155	Krishnapriya.C.G	IIIrd Dc chemistry	9497713661	
156	Manjima Sanil	IIIrd Dc chemistry	8590719007	
157	Anagha Sanil	IIIrd Dc chemistry	9037049500	
158	Akhila A.B	IIIrd Dc chemistry	8078579800	
159	Chinju p.c	IIIrd Dc History	9072962755	
160	Anila Anilkumar	IIIrd Dc History	9539280416	
161	Bileena AB	IstBcom co-operation	9496104136	
162	Mithra Suresh	"	9497570426	
163	Fathima Nasreen K.S	"	9207923436	
164	Archana.p.D	BA Economics	9633341078	
165	Athira.K.C	BA Economics	8589814806	
166	Arya K.S	BA Economics	9645938020	
167	Anjana E.A	BA Economics	9526545631	
168	Sathal.M.S	B.A History	6238780802	
169	Gayathry.N.J	BA History	9037657512	
170	Dhanya	B.A Economics	8943812565	
171	Alikha.VS	B.A Economics	7736267106	
172	Gayathri.P.S.	B.com. Finance	9446880715	
173	Aadra.V	"	7909200490	
174	Vidya K.N	3rd Ba economics	8086786017	
175		3rd		

National Science Day 2023

National science day was celebrated in the college on 28th February 2023 with various programs aimed to raise appreciation of the scientific issues in global context which is having a bearing upon global wellbeing. Ms. Rebha II MSc Physics had given a presentation on the Biography of Sir C V Raman and his scientific and academic contributions. Arrangements were made to observe the sunspot through telescope and Dr. Nijo Varghese had explained about the physics behind solar activity. Ms Fency K F introduced the new books added in the APT science book club of the department.









Seminar on

WORLD PTSD DAY OBSERVATION 2022

Organized by

The Department Of Psychology,
Sacred Heart College,
Chalakudy

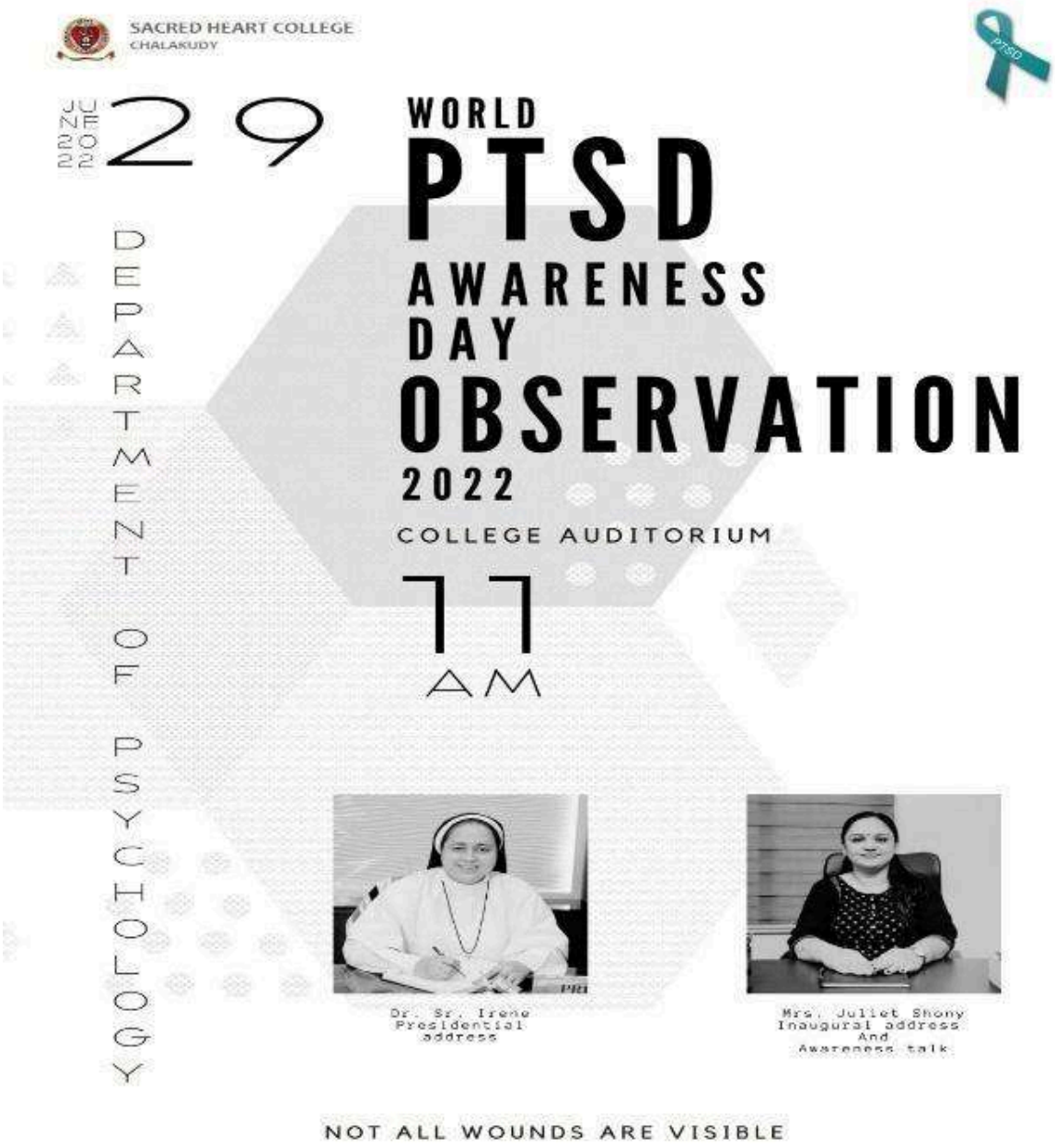
27th of June was World PTSD awareness day. On 29th June 2022, the students and staff of the department of psychology organized an awareness programme on PTSD under the auspices of the Awareness Day.

The programme began with seeking the blessings of the almighty. Head of the Department of Psychology Ms Gayathri Suresh Babu, welcomed the gathering. The speech had an essence of her gratitude to the whole college for their support to the newly formed department.

The beloved principal Dr. Sr. Irene presided over the function .She stressed on the importance of the department of psychology in improving the wellbeing of the students of the college. Mrs Juliet Shony, consultant psychologist officially inaugurated the programme and threw light on the importance of the day.

PTSD is a psychological disorder that is categorized under F.43. of International Classification of Disorders 10 reaction to severe stress and Adjustment Disorders precisely 43.1 in the list.The talk was highly informative and gave a clear awareness on PTSD . Avoiding the clinical terms, the resource person could spread her knowledge to the people around.

Brochure -



Welcome address by Ms. Gayathry Babu



Talk on PTSD by Ms. Juliet, Resource person



Participant List -

SACRED HEART COLLEGE FOR WOMEN,
CHALAKUDY

Name of the programme : PTSD DAY OBSERVATION 2022
Organised by : Department of Psychology
Date : 29-06-2022
Resource Person : Mrs Juliet Chony

Sl. No.	Name of the Student	Department & Class	Signature/Status
1	Sreelakshmi P R	II nd B COM CA	Sreelakshmi
2	ALEN ROSE JAMES	II nd B COM CA	
3	christy John	II nd Bcom CA	
4	Ganga T S	II nd B.com CA	
5	Anna Julia B Veligan	II nd BA English	
6	Anogalu Jose	"	
7	Krishnapriya V	"	
8	Nandana. Nair	"	
9	Amritha Unni	"	
10	ANNA NELSON	"	
11	SR Alby K T	"	
12	Greeshma Girish	II nd Bcom CA	
13	Gopika	"	
14	Samasya Unnikrishnan	"	
15	Anu Baby	"	
16	Anamika P.S	"	
17	Arathi Jayan	II nd Bcom CA	
18	Aleena P.J	II nd BA History	
19	christeena Babu	" "	
20	Teeva A k	" "	
21	Aacettamol Jinson	" "	
22	Bisnal Benny	" "	
23	Devika K.G	" "	
24	SANA B.S	" "	
25	Anitta Roban	" "	

SACRED HEART COLLEGE FOR WOMEN,

CHALAKUDY

Name of the programme : PTSD Day Observation 2020
Organised by : Department of Psychology
Date : 29-06-2020
Resource Person : Mrs. Juliet Shony

Sl. No.	Name of the Student	Department & Class	Signature/Status
1	Anagha. A. K	B.A. History 2nd	
2	JOSIYA JOHNY	B.A history 2nd	
3	Bhadra. K. Chandran	BA History 2nd	
4	Sreelakshmi Mukundan	B.com finance 2nd	
5	Sahithya. K. S	B. Com finance 2nd	
6	Aparna B Nair	B.com finance 2nd	
7	Mariya Davis	B. Com finance 2nd	
8	ANSA. P.R	B. com finance 2nd	
9	Aasha Mariya	B.A. English	
10	Delisha	"	Delisha
11	CHANDHINI CHANDRAN	B.A. ENGLISH	Chandhini
12	Afna K.K	"	
13	Nandana K U	B.A. English	
14	Agnes Mariya	B.A. English	
15	Anagha K.S	B.A history	
16	Alfonsa Shaiju	B.A history	
17	Riswana. [illegible]	B.A history	
18	Anu P B	BA History	
19	Athulya V.P	BA History	
20	Aswathy. A.B	BA History	
21	Akshara Unnikrishnan	BA Economics	
22	Aswathi M.U	BA Economics	
23	Ameesha	BA Economics	
24	Sijo. Jose	BA Economics	
25	Anu Mariya. K	MSc Psychology	

SACRED HEART COLLEGE FOR WOMEN,

CHALAKUDY

Name of the Programme : PTSD Day Observation 2022
Organised by : Department of Psychology
Date : 29-06-2022
Resource Person : Mrs. Juliet Shony

Sl. No.	Name of the Student	Department & Class	Signature/Status
	Athulya Rajan	B com Finance	
	Chanja K.B	"	
	Neha Biju	"	
	Shyna mol-V	BA economics	
	Jesna Joby	BSc Chemistry	
	Efsiya P.J	B.sc chemistry	
	Sangeetha MP	B.A ECONOMICS	
	Fathima Nisha BP	"	
	Nandhana Suresh	B.com Finance	
	Sijna Shaju	"	
	Sania Benny	"	
	Vineesha VV	"	
	Aswathy C.S	"	
	Liza Joseph	B com finance	
	Alashitha Joy	"	
	Anakha Manoj	MSc psychology	
	Anna Rose Biju	"	
	Chandana Chandran	"	
	Gayatri T.S	"	
	Elsmary Joseph	"	
	Athira Santhosh	"	
	Sayanlakshmi M Sivan	"	

SACRED HEART COLLEGE FOR WOMEN,
CHALAKUDY

Name of the programme : PTSD Day Observation 2022
Organised by : Department of Psychology
Date : 29-06-2022
Resource Person : Mrs. Juliet Shony

Sl. No.	Name of the Student	Department & Class	Signature/Sign
	Megha k.s	Bsc. Physics.	
	Anagha Sunil	Bsc. chemistry	
	Abhirami k.s	B.S.C chemistry	
	Angel Rose Baiju	Bsc. physics	
	Ann Mary Jay	B.Sc Physics	
	Swathi Sajan	"	
	Aisha Shaji	"	
	Aleena Thankachan	"	
	Rajathy Menon	B.Sc Physics	
	S.M Chindha	Bsc. Physics	
	AISHA.A	IMSc. Psychology	

SACRED HEART COLLEGE FOR WOMEN,

CHALAKUDY

Name of the Programme : PTSD Day observation 2022
Organised by : Department of Psychology
Date : 27.06.2022
Resource Person : Mrs. Juliet Sherry

Sl. No.	Name of the Student	Department & Class	Signature/Status
	Vafa Maryam TP	BSc Physics	
	Avaniya A	BSc Chemistry	
	Ann Sebastian	Bcom Finance	
	Liffy James	B.com finance	
	Abna CP	B Com finance	
	Teja K Shylesh	B com finance	
	Aneesha K P	B com Finance	
	Nandana Murali	Bsc physics	
	Afsaludeen P.A	Bsc Physics	
	Shahima Azad	Bsc Physics	
	Sethulakshmi P M	Bsc Physics	
	Krishnapadha S	BSc Zoology	
	Aryanandu J. Prakash	BSc Zoology	
	Devika M T	Bx Zoology	
	Anjana A	BA English	
	Lanilah Kadath c	BSc Zoology	
	Aryanandha mohan	B.s.c zoology	
	Anagha P V	B.Sc - Zoology	
	Devika T P	B Sc Zoology	
	Maniya Vijo	B.Sc Zoology	
	Krishnapriya PM	BSc zoology	
	Hardeya Subash	Bsc chemistry	
	Aiswarya K.S	BSc chemistry	
	Sayaanvika T.J	BSc chemistry	
	Sreenandana K.S.	BSc chemistry	

SACRED HEART COLLEGE

CHALAKUDY

Name of the programme : PTSD Day Observation 2022
Organised by : Department of Psychology
Date : 29-06-2022
Resource Person : Mrs. Juliet Shony

SL No.	Name of the Student	Department & Class	Signature/Status
26	Jefit Jeffy	Third B.A History	Jefit
27	Akhila Varghese	" "	Akhila
28	Maya A.R	" "	Maya
29	Naseeba V.N	" "	Naseeba
30	Sabeeba Saji	" "	Sabeeba
31	Diya Rajeev	2nd B.com CA	Diya
32	Anjali I.A	" "	Anjali
33	Sara Fathima M.S	1st B.com Finance	Sara
34	Shifana S	IInd Bcom CA	Shifana
35	Helen Saju	" "	Helen
36	Archana Shaju	"	Archana
37	Anjana M.R	"	Anjana
38	Devika prasad	"	Devika
39	Deepthi K	1st Bsc chemistry	Deepthi
40	Isha P. Sunilkumar	"	Isha
41	Bhavana K	"	Bhavana
42	Nivedhitha p.sukhesh	"	Nivedhitha
43	Gayathri P.S	Bcom Finance	Gayathri
44	Lidiya E.S	"	Lidiya
45	Liya Grace Joy	"	Liya
46	Meera Anil	"	Meera
47	Aliya Rose Shaju	"	Aliya
48	Steffy E.V	"	Steffy
49	Anagha nandan	IInd B.A. History	Anagha
50	Ahalya .N.S	" "	Ahalya
51	Meera T.M	"	Meera

SACRED HEART COLLEGE FOR WOMEN,

CHALAKUDY

Name of the programme : PTSD Day Observation 2022
Organised by : Department of Psychology
Date : 29-06-2022
Resource Person : Ms. Juliet Shony

Sl. No.	Name of the Student	Department & Class	Signature/Statu
	Dhilna Joju	B.Com Finance	
	Aadya.V	B.Com Finance	
	Sreegadha.B	B.Com finance	
	Mary Lona	B.Com finance	
	Sreegangya.B	B.Com finance	
	Riya Babu	B.Com Finance	
	Sahla C.K.	B.A.English	
	Aleena Roy	BA.Economics	
	Sreelakshmy.K.V	B.A.Economics	
	Fahmitha M.M	B.A Economics	
	Sona VJ	B.A Economics	
	Siya Saju	BA Economics	
	Dhanya Manoj	BA Economics	
	Riya Raju	BA Economics	
	Sreelakshmy.P.S	BA Economics	
	Aragha K.S	"	Aragha
	Anna Rose Anto	"	
	Akshaya E.M	BA ECONOMICS	
	Malavika Mohan	BA ECONOMICS	
	Neena Manakan	BA Economics	
	Jayana P.B	BA Economics	
	Athulya manoj	BA Economics	
	Amrita Ramachendran	B.Com finance	
	Sajana M.S	"	
	Harsha M.P	"	

WORLD MENTAL HEALTH DAY- 2022
'ALL FOR U'

10th of October was World Mental Health Day 2022. On 10th October 2022 to 14th October 2022, the students and staff of Department of Psychology organized an awareness program on Mental Health Day named " ALL FOR U".

The program was a week long program starting from October 10th 2022 with an Inauguration and a talk on mental health, and on October 11th 2022 was an exhibition, games and competitions related to the same. The third day was 12th October 2022 which was a Psychodrama by the students. And the other two days was Flashmob for college on 13th October and the Flashmob for public on 14th October 2022.

Day 1

On October 10, 2022, the first day was the Inauguration of the World Mental Health Day. The program was inaugrated by the beloved principal of the college Dr. Sr. Irene. The chief guest of the function was Mrs. Juliet Shony, Clinical Psychologist and she emphasized on the importance of Mental Health and talked about the same, the students was informed about their need for good mental and physical health and the measures to be taken in need for improving mental health.

Day 2

On October 11, 2022, the second day was exhibitions and competitions for the students and staff of the college. The exhibitions and competitions was organized at the college auditorium. The exhibition had the information about Mental Health awareness, the measures to improve, positive affirmations, the opportunity for the participants to scribble their thoughts and their positive outlook towards life. There were competitions of Face Painting, Mobile Photography and a Tablou Competition. The winners were awarded with cash prizes.

Day 3

On October 12, 2022 the third day was the psychodrama by the students of Psychology Department named “WITHOUT WORDS” for the staffs and students of Sacred Heart College, Chalakudy. The program was from 3pm to 4pm, at college auditorium. The drama made it clear that, it is okay not to be okay, not mental strong, we have weak days but to understand the same and take help if needed in the best we could do for us.

Day 4 and 5

On October 13 and 14, 2022 , the final days of ‘ALL FOR U’ was the Flashmob for the students and staff of the college and for the public by the students of Psychology Department. The Flashmob for the college was at 1pm at the College portico and the Flashmob for public was at the Railway station at 3pm on 13 October.

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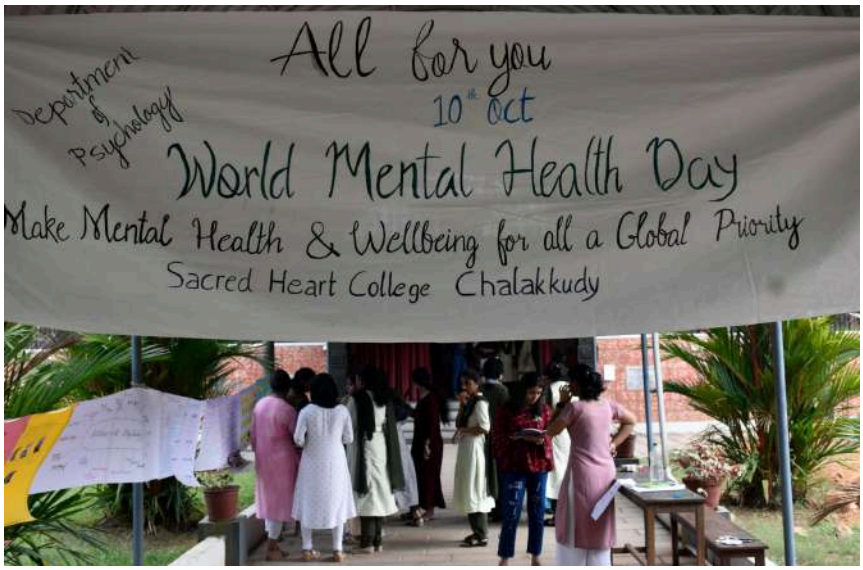

All for you
Department of Psychology
10th Oct
World Mental Health Day
Make Mental Health & Wellbeing for all a Global Priority
Sacred Heart College Chalakkudy



Report of the community visit 2022-23

Date : 14/12/2022

Place: De Paul SSSMILE Village, Pariyaram, Chalakudy, Kerala.

The students of Department of Psychology (first years and second years) visited De Paul SSSMILE Village, Chalakudy , Kerala for the Community Visit. There were 26 students along with 2 faculties. We arrived there on December 14 ,2022.
The aim of the visit was to interact with the residents of SSSMILE Village which would improve the communications skills and empathetic approach of psychology students. The services of the village have been led by the sisters of Mercy community. There are 3 houses in the men's section and 4 houses in the women's section, all together 80 people live here in 7 houses. They have made an atmosphere for them to experience the love and companionship they get in a family for mental, physical and spiritual well-being. The students spent some quality time with them by interacting compassionately and entertained them. The entertainment session included the performances of both the students and residents of the SSSMILE Village.





March 6- Book donation drive

The Department of Psychology at Sacred Heart College Chalakudy, in collaboration with the Psychology Association and Shalom Institute of Mental Health and Research Center, successfully organized a Book Donation Drive on March 6 at Clair Hall. The initiative aimed to create a library for the inmates of the Shalom Institute, fostering mental well-being through the therapeutic benefits of reading. The event garnered enthusiastic participation from students, faculty, and staff, resulting in a diverse collection of books, including fiction, non-fiction, self-help, and educational materials. Sacred Heart College Vice Principal handed over the collected books to Ms. Blessy, senior Consultant Psychologist, SIMHAR. Head of the Department Niveditha Ajayaghosh and Psychology Association Secretary Ms. Subi A. addressed the gathering. More than 300 books were collected by students.





March 15-25 - INTERNATIONAL HAPPINESS DAY

The Department of Psychology, Sacred Heart College, celebrated International Happiness Day through a dynamic 10-day program titled "HALAZIA" Commencing festivities included inspirational talks, a song dedication session, engaging street song activities under the theme "Keri Paadeda Makkale," and interactive games, fostering a vibrant atmosphere. A photography contest captured joyful moments, while the unique "Memorial Letter of Happiness" initiative had participants sharing positive memories with loved ones. The program also featured 10 days of happiness tasks, promoting mindfulness and gratitude.



REPORT OF THE OBSERVATIONAL VISIT 2022-23

Date : 17/03/2023 ,Thursday.
Place: Psychopark, Vellanad, Thiruvananthapuram.

The students of the Department of Psychology (first years and second years) visited India's first Psychological Park, Psycho Park, Thiruvananthapuram for the Observational Visit. There were 25 students along with 2 faculties. We arrived there on March 17, 2023. Psycho park aims at providing information about many aspects of the human mind and brain, psychology and its disciplines, myths and beliefs about mental illness and treatment, evolution of life and more. It is done through games, stories , artifacts , demonstrations, models , paintings etc.
Our exploration started with an interactive session with Dr. L.R. Madhujan and his team mates in which they gave an introduction and a warm up session.
A Trephination illustration was depicted at first. The next part of the room depicted ancient Indian methods of dealing with mental illness. Next sculpture was a Totem consisting of a bird an animal and a man. The Totem was a representation of Nangeli's story and the Malayalam Poem Poothapattu. The next sculpture was a folk tale of Naranathu Branthan. The story depicts insecurities and how people deal with their insecurities. The next room was the 'Dopamine House' dedicated to the motor functions of the neurotransmitters. Other main attractions were Abraham Maslow's Hierarchy of Needs, a piece of heart of evolution of mankind, a lab of various tests and measurements etc. The evening session was on Cognitive Behavioral Therapy (CBT) and its presence in ancient Indian culture. The visit came to an end with visiting the Brain Museum and theatrical drama related to psychology and a final interactive session with the founder,Dr.L.R. Madhujan which was very informative.


Psycho
PARK

Inauguration of the Association of Zoology Department: Exploring Career Opportunities in Research

Venue – Clare Hall

Date – 1 December 2022

Introduction:

The inauguration of the Association of Zoology Department was held at Clare Hall 1st December 2022. The event aimed to provide students and faculty members with insights into career opportunities in research and related disciplines.

The inauguration ceremony commenced with a warm welcome address by Dr. Tessy KL, Head of the department of Zoology, highlighting the importance of academic associations in promoting interdisciplinary collaboration and knowledge exchange. Distinguished chief guest of the day was Dr. Joseleen Jose, Principal Scientist, Shellfish Fisheries Division, Central Marine Fisheries Research Institute, Kochi. Faculty members, and students gathered to celebrate the launch of the association and its mission to advance the frontiers of zoological research.

This was followed by an inauguration by lighting of the lamp to commemorate the beginning of the events to be organised by the Department of Zoology. This was followed by a technical session on the topic "The prospects of shell fish culture especially on crab culture" by the chief guest. She shared valuable insights into the evolving landscape of zoology and emphasized the myriad career opportunities available to aspiring researchers.

The lecture was followed by an interactive sessions designed to facilitate dialogue between students and professionals. Participants had the opportunity to pose questions, seek guidance, from the chief guest. The interactive nature of the sessions fostered a sense of community and camaraderie among attendees, inspiring collaboration and mentorship opportunities.

In conclusion, the inauguration of the Association of Zoology Department provided a platform for students and faculty members to explore career opportunities in research and related disciplines. Through insightful discussions, interactive sessions, and collaborative endeavors, the event reinforced the department's commitment to nurturing the next generation of zoologists and advancing knowledge in the field. As the association embarks on its journey, it is poised to make significant contributions to the field of zoology and inspire future generations of researchers and scholars.





Workshop on Terrarium Making: Fostering Creativity and Connection with Nature

Venue – Botany Lab

Date – 31 January 2023

Introduction:

The workshop on terrarium making provided participants with a unique opportunity to engage in a hands-on learning experience, combining creativity with a deep appreciation for nature. Held in botany lab on 31 January 2023, the workshop aimed to inspire participants to create miniature ecosystems within glass containers, fostering a sense of connection with the natural world. The training was handled by Ms. Bincy Baby.

The workshop commenced with an introduction to terrariums, highlighting their history, ecological significance, and therapeutic benefits by Ms. Bincy Baby. Students of the department of Zoology gathered with a shared enthusiasm for exploring the art of terrarium making and its potential for creativity and self-expression.

Ms Bincy Baby is an experienced terrarium builder and helped participants delve into the basic principles of terrarium making, including container selection, substrate composition, plant selection, and maintenance techniques. Through interactive demonstrations and step-by-step guidance, she gave the participants practical insights into the process of creating and caring for their own miniature ecosystems.

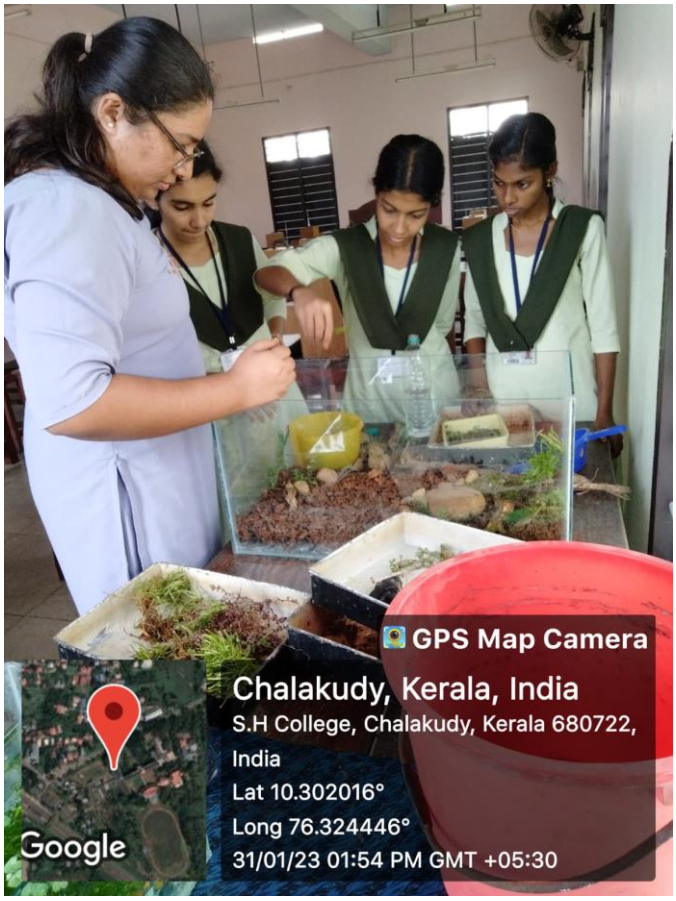
Armed with glass containers, soil, gravel, moss, and an assortment of miniature plants, participants embarked on their journey to design and assemble their terrariums. Guided by Ms. Bincy Baby, participants experimented with different layouts, plant combinations, and decorative elements, infusing their creations with personal touches and artistic flair.

The workshop encouraged participants to explore their creativity and express themselves through their terrarium designs. From lush forest landscapes to minimalist desert scenes, each terrarium reflected the unique vision and personality of its creator, serving as a testament to the boundless possibilities of nature-inspired artistry.

Participants learned about the symbiotic relationships between plants, soil, and microorganisms, deepening their understanding of ecological principles and ecosystem dynamics. As the workshop concluded, participants emerged with a sense of accomplishment and connection to their creations. Beyond the tangible terrariums themselves, participants carried with them a newfound appreciation for the beauty and resilience of nature, fostering a sense of stewardship and reverence for the natural world.

In conclusion, the workshop on terrarium making provided participants with a transformative experience, blending artistry, education, and environmental awareness. Through hands-on creation, creative expression, and educational insights, participants discovered the joy of connecting with nature in a tangible and meaningful way. As they proudly displayed their terrariums, participants celebrated not only their artistic endeavors but also their newfound connection to the intricate and wondrous world of nature.

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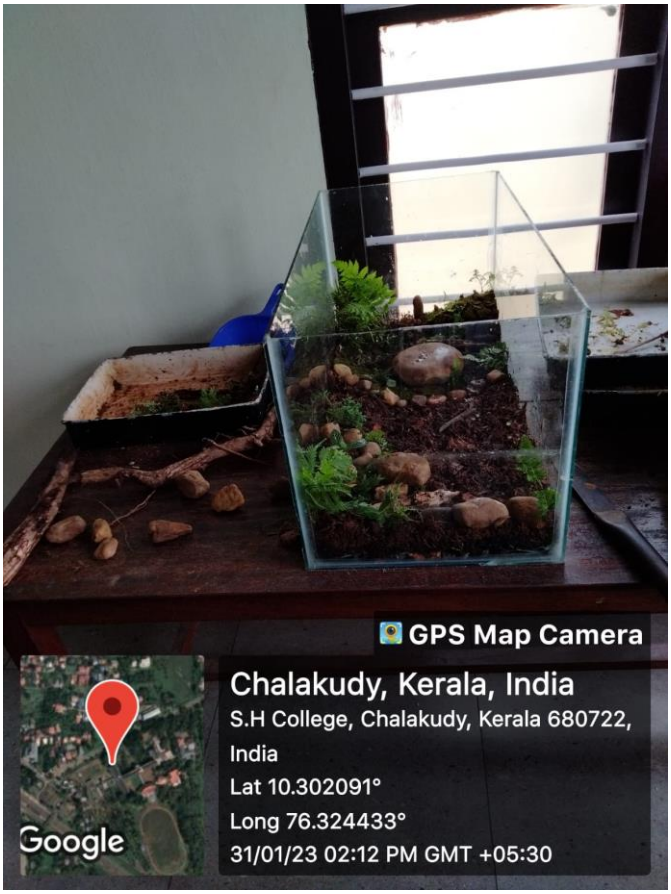
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UNIVERSITY OF CALICUT

SACRED HEART COLLEGE CHALAKUDY

POST GRADUATE DEPARTMENT OF ZOOLOGY

FIRST AND SECOND SEMESTER M.Sc: ZOOLOGY

2021 - 2022

FIELD STUDY REPORT

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UNIVERSITY OF CALICUT

SACRED HEART COLLEGE CHALAKUDY

POST GRADUATE DEPARTMENT OF ZOOLOGY

M.Sc. FIRST AND SECOND SEMESTER

2021-2022

FIELD STUDY REPORT

Certified as Bona-fide Record of Work Done in the Laboratory by the Candidate ARDRA. S *Register No.* SHAVMZL006 *for Master of Science Degree in Zoology during the Academic Year 2021-2022.*

MABLE VARGHESE
Lecturer-in-charge

Examiners:

1 .....

2.....

HOD/Co-Ordinator in Charge

SACRED HEART COLLEGE
ZOOLOGY DEPT.
CHALAKUDY

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SACRED HEART COLLEGE
ZOOLOGY DEPT
CHALAKUDY

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Introduction

As required per the curriculum we the 2nd Semester MSc Zoology students of Sacred Heart College Chalakudy went on a field study. Our primary interest being the study of ecological behaviour, that insisted in our curriculum. For that we choose destinations such as Kerala Forest Research institute, Peechi dam, Central Marine Research Institute and Athirappilly Water falls. Our teachers guided us throughout the trip. On the 1st day we visited 2 spots and on 2nd day we visited the 3rd spot and on 3rd day we visited 4th spot that is Athirappilly Water falls. Now lets drive in to the report to know more about the field study.

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Kerala Forest Research Institute

Date : 22/07/2022

Day : 1

We first visited the Kerala Forest Research Institute on 22/07/2022 Friday, along with our teachers. And this was our first destination. Peechi in Thrissur: The Kerala Forest Research Institute [KFRI] is an Organisation based in Peechi, in Thrissur, India. It was established in 1975 by Government of Kerala as part of its Science and Technology Department, and in 2003 became part of the Kerala State Council for Science, Technology and Environment.

The institute carries out research, training and extension on a range of disciplines related to tropical forests and forestry. Besides its main campus at Peechi in Thrissur District, a sub centre has been established at Nilambur and a field research centre at Pilapilly in the Thrissur district. The main Campus

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situated on the Thrissur - Peechi road has the main administrative offices, research divisions, laboratories, nurseries, green houses museums, guest houses and the Kerala Forest Seed Centre.

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Peechi Dam

Our next destination was to Peechi Dam. Peechi dam Thrissur is situated 22 km (14 mi) outside Thrissur city in Kerala, India. The dam was started as an irrigation project for the surrounding villages in Thrissur. At the same time, it catered the drinking water needs of the population of Thrissur City. It saves an irrigation dam, reaching out to be the paddy fields in and around Thrissur City. Built across the Manali River, the dam has a catchment area of nearly 3,700 acres. Elephants may be seen on the bank of Peechi - Vazhani Wild life Sanctuary, established in 1958 covering 125 squares kilometers (48 sq. mi)

Peech dam is One of the beautiful dams builds in the state. Filled with natural beauty, this place has an incredible

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collection of Flora and Fauna. It is 23 km from Thrissur, is the chief irrigation project of this Kerala town. Today, this place picturesque spot has to the boating facilities offered at the reservoir. An added feature is the Peechi-Vazhani Wild life Sanctuary. Peechi Dam also supplies drinking water to Thrissur. It also contains gardens and the gorgeous botanical gardens with their colorful flowers manicured lawns and gushing fountains are a great gate way.

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Central Marine Fisheries Research Institute

Date : 12/08/2022

Day : 2

We opted CMFRI as our destination. The central Marine Fisheries Research institute was established in the government of India on 3 February 1947 under the Ministry of Agricultural Research (ICAR) family and emerged as a leading tropical marine fisheries research institute in the world. the headquarters of ICAR - CMFRI is located in Kochi, Kerala, initially the institute focused its research efforts on creating strong database on marine fisheries sector by developing scientific methodologies for estimating the marine fisheries landings... and biological aspects of the exploited stocks of finfish and shellfish on which fisheries management

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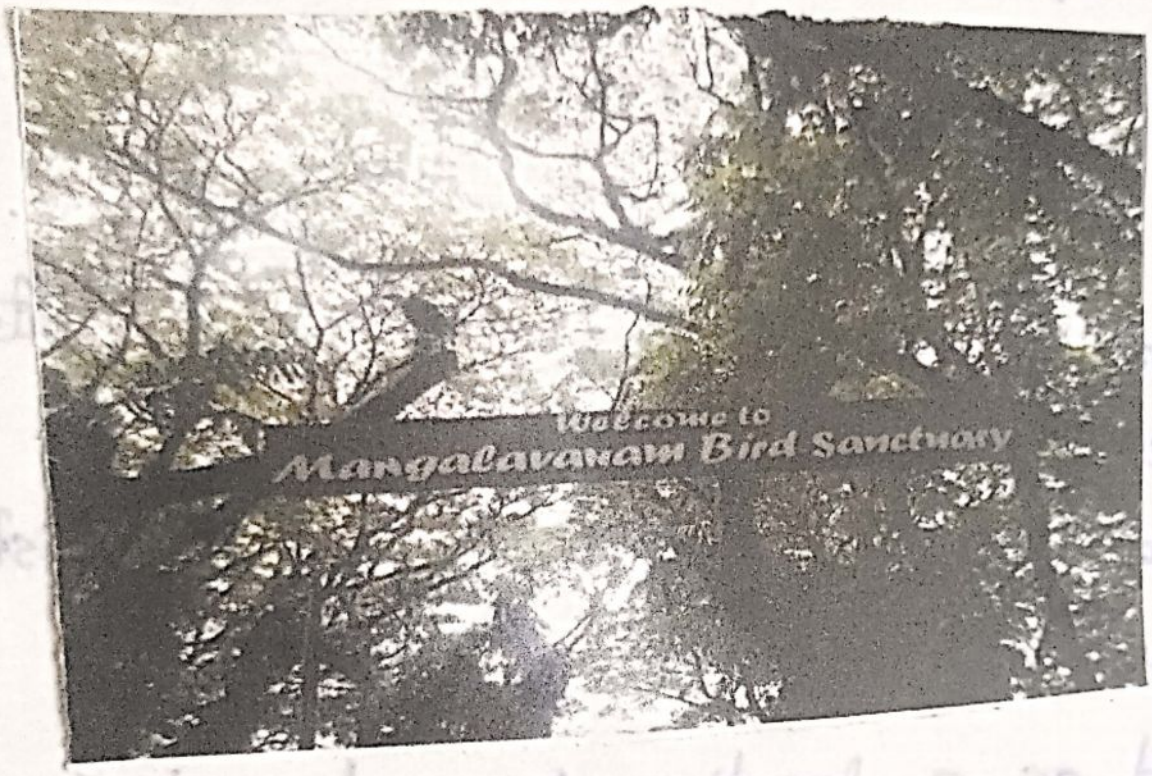
Welcome to
Mangalavanam Bird Sanctuary

were to be based. This focus contributed significantly to development of the marine fisheries sector from a predominantly artisanal, subsistence fishery till the early 80ties to that of a complex, multigear, multispecies fisheries One of the major achievements of ICAR-CMFRI is the development and refinement of a Stratified multistage Random Sampling method for estimation of Marine fish landings in the country with a coast line of over 8000 km coastline and landing centers.

Athirappilly Waterfalls

Date : 12/11/2022

Day : 3

Athirappilly falls, is situated in Athirappilly Panchayath in chalakudy Taluk of Thrissur District in Kerala, India on the chalakudy river, which originates from the upper reaches of the western Ghats at the entrance to the sholayar ranges. It is the largest waterfall in kerala, which stands tall at 80 feet. just a short drive from Athirappilly to the Vazhachal falls, which is close to dense green forests that are home to many endangered and endemic species of flora and fauna.

On reaching the Athirappilly Waterfall entrance, there are shops and foot

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joints and from these, one has to walk to get the view of the waterfall. From this point, one will be able to get the view of the river flowing and falling down from the rocks to the steep valley. Again one has to trek downhill to get the exact view of the waterfall. It takes 10 to 15 minutes to trek down the hills to get the picturesque look of the waterfall and the frothing water. The trip to Athirapilly is totally incomplete with out this downhill trek.

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UNIVERSITY OF CALICUT

SACRED HEART COLLEGE CHALAKUDY

POST GRADUATE DEPARTMENT OF ZOOLOGY

THIRD AND FOURTH SEMESTER M.Sc. ZOOLOGY

2022-2023

FIELD STUDY REPORT

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UNIVERSITY OF CALICUT

SACRED HEART COLLEGE CHALAKUDY

POST GRADUATE DEPARTMENT OF ZOOLOGY

M.Sc. THIRD AND FOURTH SEMESTER

2022-2023

PRACTICAL RECORD

Certified as Bona-fide Record of Work Done in the Laboratory by the Candidate ARDRA S *Register No.* SHAVMZL006 *for Master of Science Degree in Zoology during the Academic Year 2022-2023*

31/07/2023

Ms. RANI PAULY

Lecturer-in-charge

Examiners:

1 ..... 1/8/23 .....

2 ..... 1/08/2023 .... PRESHY P.V

HOD/Co-Ordinator in Charge

SACRED HEART COLLEGE ZOOLOGY DEPT CHALAKUDY

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SACRED HEART COLLEGE ZOOLOGY DEPT CHALAKUDY

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Introduction

As required per the curriculum, we the fourth semester MSc. Zodogy students of Sacred Heart college chalakudy went on a field study. Our primary interest was collecting specimens that has been insisted in our curriculum. We chose our destinations where we could also study birds, butterfly and mammalian diversity. For that we chose destinations such as Dr. Salim ali bird sanctuary goa, athirapally waterfalls and chalakudy fish Market. We were asked to collect specimens such as Macro-benthos, Planktons, Edible invertebrates, Edible Fishes, Bivalves etc... And for the same we selected ~~these~~ three spots as our destinations. Our teachers guided us through our our trip. It took three days to complete our trip. Now let's dive in to the repost to know more about the field study.

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Salim Ali Bird Sanctuary Goa

DAY - 1

DATE :- 06 - 12 - 2022

We visited the Salim ali bird Sanctuary on 06-12-22 the Salim Ali bird Santuary is one of the smallest protected areas of Goa. This slice of ornithological heaven is undoubtedly a fabulous insight in to the fragile ecosystem that is the mangroves marshes. We had a field day being paddled around the sanctuary's narrow canals in a dug-out canoe, spotting rare bird and animal life.

Located on the island of Chorao in the Mandovi river, the sanctuary is accessible by a ferry. The Salim Ali Sanctuary is host to a number of common and uncommon species of marsh dwelling birds and animals. We were able to see white egrets, purple herons, Kingfishers, eagles, cormorant, Kite, woodpeckers, Sandpiper, Curlews, drongos

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and migrants. In addition to birds there are some species of reptile and crustaceans that make their home amongst the mangroves. These included mudskippers, fiddler crabs, crocodiles, otters, flying foxes and jackals.

The Sanctuary boasts a well-equipped Nature Research Centre which is available for public use, so that tourists and locals alike can gain further insight into animals and birds like on the mudflats amidst the rare and fragile eco-system created by the mangroves. There is also a three storeyed watchtower that keen observers can use to observe bird life at three levels, below canopy level, at canopy level and above canopy level.

The best time to visit the Sanctuary is during the winter months i.e, October to March when the migratory birds that frequent the area are also in

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residence The maximum numbers of Sanctuary's inhabitants can be seen in the early hours of the morning and at sunset. The Sanctuary is open from 6:00am to 6:00pm all days of the week.

However, it should be noted that the Nandavi is a tidal river, and also tide, not all areas of the Salim Ali Sanctuary are accessible, especially by boat. However, canoes which are much more shallow crafts can usually access more of the Sanctuary's watery by-lanes.

Visitors can most probably see while egrets and purple herons, you can expect to see colourful kingfishers, eagles, cormorants, kites, woodpeckers, sandpipers, cuckoos, drongos and mynahs on a fairly regular basis. Other, more rare inhabitants of the Sanctuary includes the little bittern, black bittern, red knot, jack snipe and pied avocet (on transient sand banks).

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In addition to birds there are some species of reptiles and Crustaceans that make this home amongst the mangroves. -These include mudskippers, fiddler Crabs, crocodiles, otters, flying foxes and jackals. The migratory birds that make their home here include pin-tail ducks.

The local boatmen are available to take visitors through the canals in dugout canoes that can move easily through the shallow waters at low tide, and give the visitors an impressively close up view of marsh life at its finest. Additionally there is a boat tour organized at high tide by the forest department which takes about 9 people at a time.

whether or not you are a keen ornithologist and biologist, a trip to the sanctuary is not unrewarding as the life and ecosystem are rare and beautiful aspects of nature that everyone

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enjoys experiencing. Additionally, there is no need to walk around but rather one can enjoy a leisurely canoe-trip around the shady marshes of the island of Chorao.

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Athirapilly Waterfall

DAY - 2
DATE :- 12/03/23

Our next destination was Athirapilly waterfalls. Athirapilly waterfalls is situated in Athirapilly panchayat in chalakudy taluk of Thrissur district in Kerala, India On chalakudy river which originates from the upper reaches of the western Ghats at the entrance to the Sholayar ranges. It is the largest waterfall in Kerala, which stands tall at 80 feet. Just as a short drive from Athirapilly to Vazhachal falls, which is close to dense green forests that are home to many endangered species of flora and fauna. On reaching the Athirapilly Waterfall entrance there are shops and food joints and from there one has to walk to get the view of Waterfall. From this point, one will be able to get the view of

river. falling down from rocks to the steep valley. Again one had to trek down-hill to get the exact view of waterfall. It takes 10-15 minutes to trek down the hills to get picturesque look of the water-fall frothing water. The trip to Athirapilly is totally incomplete without this downhill trek.

Athirapally waterfalls are one of the best waterfalls in india and one of the most famous tourist destinations in Kerala. It is an ideal weekend getaway from the cities like Kochi, Coimbatore and Munnar. The overall experience of traveling to these falls is enthralling.

The road to Athirapally falls is adorned with beautiful palm and coconut trees. There is a 2 kilometer trek to reach the falls. The roaring sounds of these falls, the mist over the rushing water and the natural beauty all around will surely steal your

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least away. You can reach the top of Athirapally falls with a 15- minutes walk from the entrance.

At the top, you get spectacular views of the Shalayaa Hills and a unique view of the waterfalls. A 10-minute trek down the falls will take you to the bottom where the greatest beauty of the waterfalls can be experienced. Swimming is possible in the stream at the bottom of the falls.

Athirapally falls have a splendid atmosphere. It's not only the falls that are majestic, but also the entire area around it. You get beautiful views from almost every spot near the waterfalls. Unlike the other waterfalls in Kerala, the Athirapally falls never dry out.

Since the falls never dry out, it can be visited any time during the year. Though

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the waterfalls appear in full glory during monsoons, heavy rains can cause great inconvenience. So, the best time to visit is from September to January.

Often called 'the Niagra of India' by tourist guides, Athirapally Waterfalls are more than a mere picnic spot. Surrounded by forests that are home to all kinds of wild animals, including elephants, leopards and bisons, this area is also known to birdess as only place where all four South Indian hornbills can be spotted - The Grey Hornbill, the Malabar Hornbill, The Malabar Grey Hornbill and the Great Indian Hornbill.

The ecosystem of Athirapilly is usually unique in its biodiversity, to which the Chalakudy river contributes greatly. It flows placidly for the most part, but races down the the rocks at Athirappilly to form the white canopy of the Water-fall.

In Summer, when the waterfall becomes a trickle, Athirappilly slips back to its lazy rhythm. In the winter and monsoons, this spot is transformed into a bustling tourist destination. The winding roads that lead through small hamlets and villages nestled in the rich green forests also make the drive to Athirappilly one of the most beautiful in Kerala.

Another 5 Km down the river, just past the peringalkuthu Dam, are the Vazhachal falls. Still further east on SH 21, closer to the eastern borders of Kerala, are the Charpathiyagam falls and the Malakkappara Tea Gardens.

Vazhachal Water fall : The Vazhachal water fall is not as spectacular as the one at Athirappilly, but has its own

charm. Close to the waterfall is a Medicinal herb garden with plants that are said to cure arthritis, skin diseases and blood pressure as well. There is also a small canteen near by, making the spot ideal for a small break in a picturesque setting. Swimming in the falls is not permitted activity.

Thamboormuzhy Gardens: Located on Athirappilly Road, the Thamboormuzhy Gardens are beautifully landscaped and full of flowers. They are lined with areca nut palms on one side, while chalakkudy river flows peacefully on the other side. The gardens also house a coffee shop, ideal for a brief respite and relaxing conversations.

Chalakudy Fish Market

DAY - 3
DATE :- 18/03/2023

We opted for the chalakudy fish market as our next destination. That is on 18/03/23 Friday, We visited the nearby chalakudy fish market. It is a place for selling fish and fish products. It can be dedicated to wholesale trade between fisherman and fish merchants, or to the sale of seafood to individual consumers, or to both. It is one of the most ideal places to buy a variety of fish and seafood from different fish vendor and fish retails. Apart from that, the market includes fish storage, sorting, grading, packaging, transportation and buying and selling. We found different types of edible fishes such as Sardinella, Sardine, Mackerel,

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pomfret, shark etc. And also edible invertebrates such as prawn, crab, squids etc. were also found there. Actually, we bought both edible fishes and invertebrates from the sellers. And thus we are done with our Specimen collection and fish market visit.