

CHEMISTRY DEPARTMENT 2021-2022

ACTIVITY REPORT

ENVIRONMENT DAY CELEBRATION

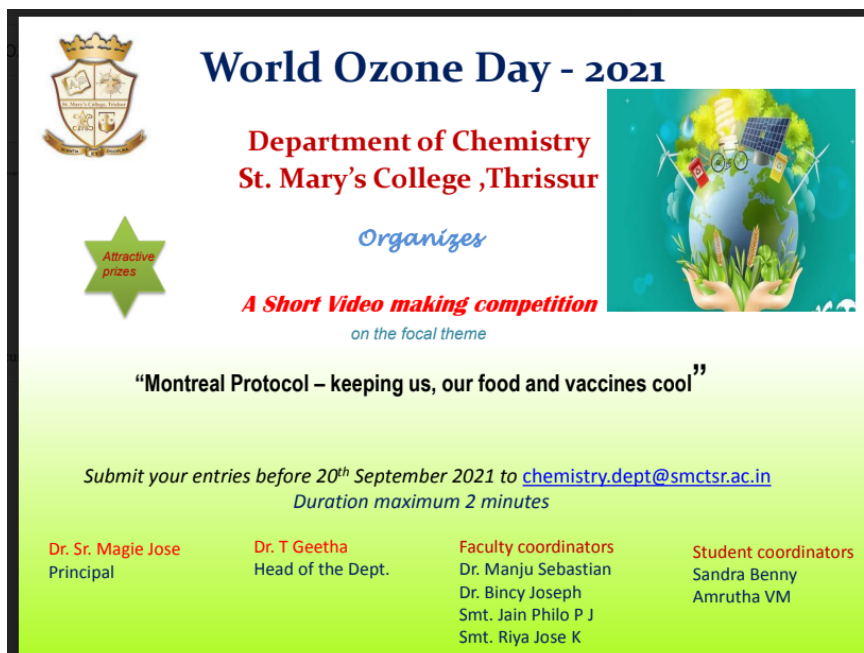
Department of Chemistry, St. Mary's College organized '*Greet Your Friend on Environment Day* - Greeting Card making contest' in connection with the World Environmental Day 2021 on 5th June, on the focal theme '*Ecosystem Restoration*'. Students from various departments participated in the competition. The participants made greeting cards and recorded the same. A one-minute video of the student making a greeting card was submitted as an entry. Ann Theresa of IIIrd DC Microbiology won first prize. Gayathri Babu Ist DC BCA and Irene Theresa John IInd semester MSc Chemistry won the second and third prize respectively.





WORLD OZONE DAY CELEBRATION – 2021

In connection with World Ozone Day the Department of chemistry, St. Mary's College organized a Short Video making competition that was conducted on the focal theme "Montreal Protocol – keeping us, our food and vaccines cool". The maximum duration of videos was fixed to be 2 minutes with the last date of receiving entries being September 20, 2021. The number of entries was 47. The videos have been judged by Dr. Remya Govind. K .Fathima Sherin (2nd BSc Chemistry) won the first prize. Second and third places were secured by Cinderella P.Abraham (2nd BSc Chemistry) and Amrutha V M (3rd BSc Chemistry) respectively.



World Ozone Day - 2021

**Department of Chemistry
St. Mary's College, Thrissur**

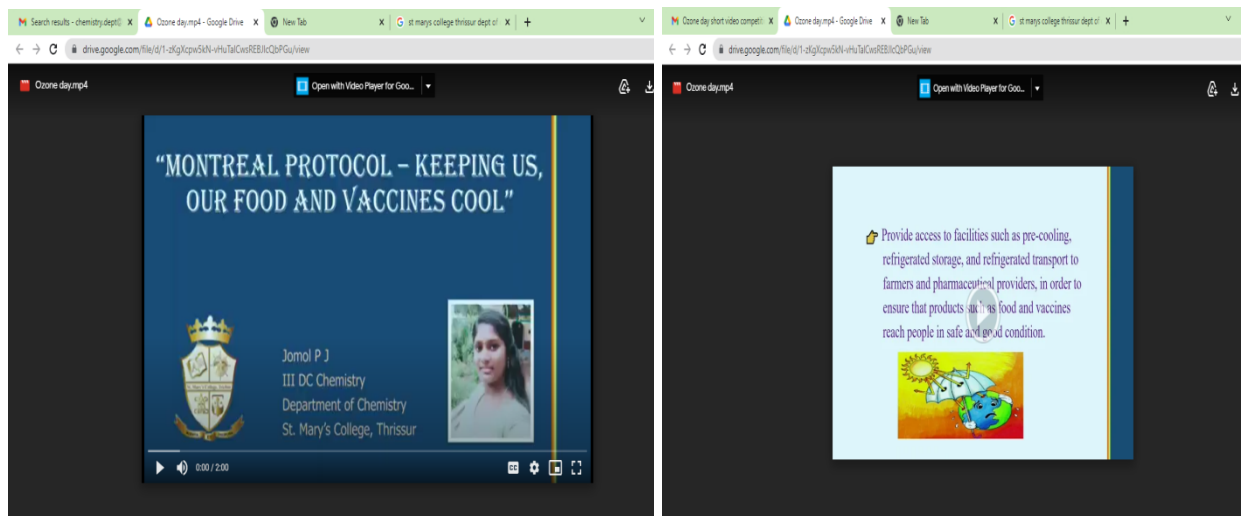
Organizes

A Short Video making competition
on the focal theme

"Montreal Protocol – keeping us, our food and vaccines cool"


Submit your entries before 20th September 2021 to chemistry.dept@smctsr.ac.in
Duration maximum 2 minutes

Dr. Sr. Magie Jose Principal	Dr. T Geetha Head of the Dept.	Faculty coordinators Dr. Manju Sebastian Dr. Bincy Joseph Smt. Jain Philo P J Smt. Riya Jose K	Student coordinators Sandra Benny Amrutha VM
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Paper Bag Challenge 2021

In connection with the National Paper Bag Day the department of chemistry, St. Mary's College organized a "Paper Bag Challenge 2021" on 12th July 2021. Students of the department of chemistry actively participated in the event.



DEPARTMENT OF CHEMISTRY ST. MARY'S COLLEGE, THRISSUR

Organizing a **Paperbag challenge 2021**

Showcase your creativity and skills by making beautiful paper bags


Click a selfie with your paper bag and upload the photo using the following google form

Link to upload:
<https://forms.gle/Me2VsQjNct#mduet6>

Head of the Department
Dr.T. Geetha


Student Coordinator
Amrutha V.M.

On

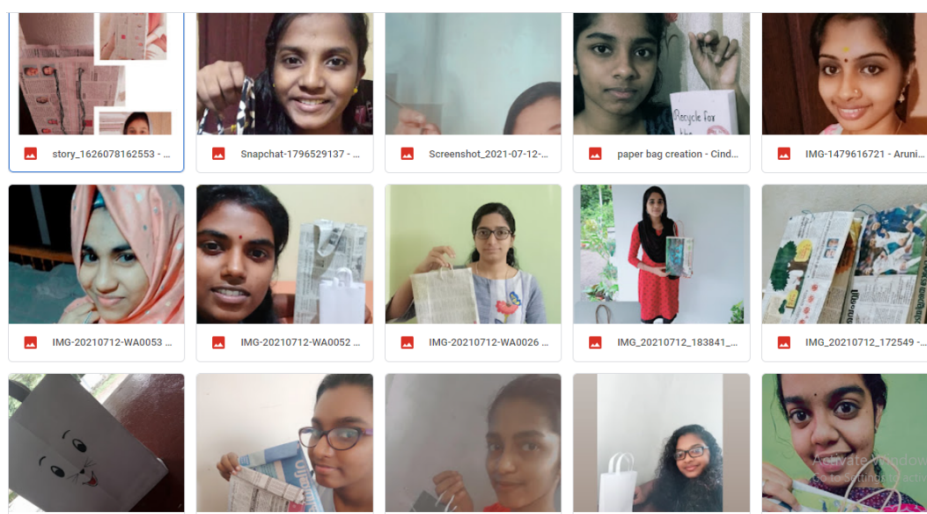


**NATIONAL
PAPER
BAG
DAY**

12th July



Say NO to Plastics



INDUCTION PROGRAM 2021- UG STUDENTS

Departmental induction program was conducted from 25-10-2021 to 30-10-2021. The first day program (25th October 2021) was meant for students to introduce themselves and the students were divided into three groups. One

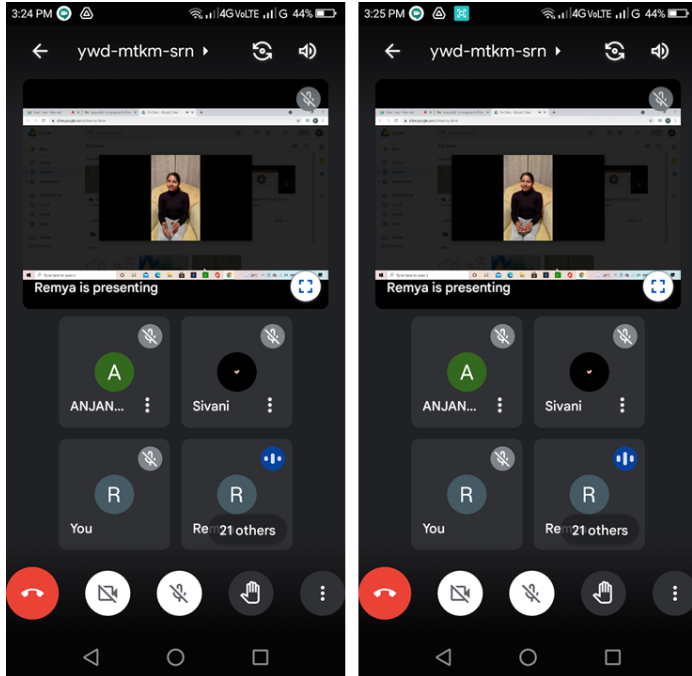
representative was chosen from each group (Surya Keerthi P S, Rihana A H and Alveena K Babu).

On the second day (26th October 2021), students shared their extracurricular interests and talents and were motivated to prepare a small video in order to showcase their talents and to improve coordination in class and to make them ready to work as part of a team. Apart from singing and dancing, students performed pencil drawing, painting, bottle art, installations, mono act and nadanpattu.

On the third day (27th October 2021), a group discussion was conducted on the topic Climate change. Students expressed their views and expressed their concerns regarding Kerala's climate crisis. Particularly, Gloria Tony, Surya Keerthi and Sivani expressed their views clearly and with brevity.

On 28th October 2021, the students were given some insights about pursuing Chemistry and were shown some motivational videos of their seniors who are pursuing research.

On 29th October 2021, the students were given an orientation about college and activities. On 30th October 202, students were encouraged to visit a local place as part of an exposure program observing covid protocol. Feedback was collected from students as a photo of the place they visited with a short description.

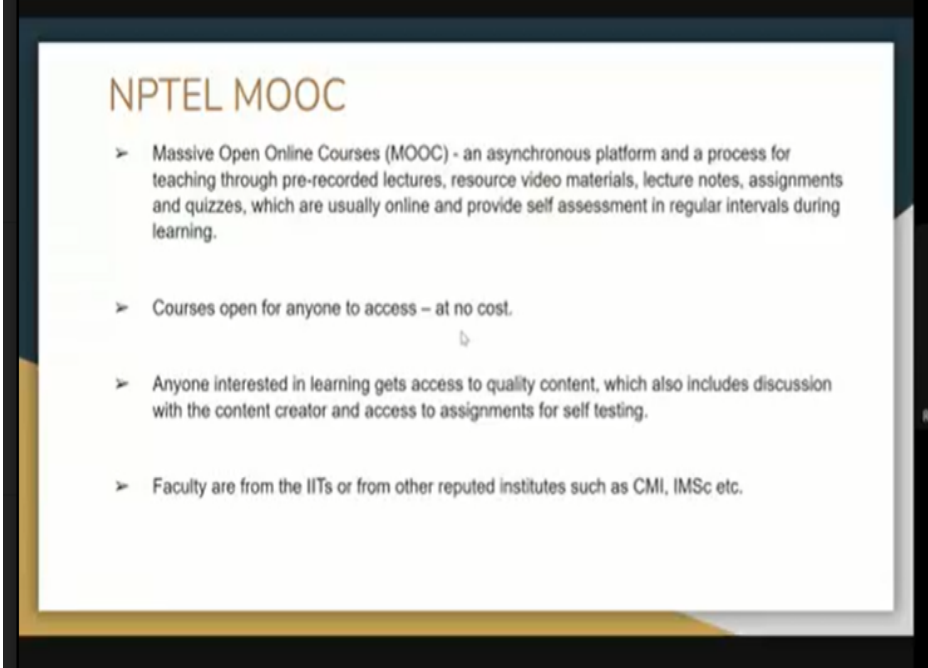


ORIENTATION PROGRAMME NPTEL (NATIONAL PROGRAM ON ENHANCED TECHNOLOGY)

Knowledge Is Free

NPTEL is an acronym for National Program on Technology Enhanced Learning, which is an initiative by seven Indian Institutes of Technology (IIT Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee) and Indian Institute of Science (IISc) for creating course contents in engineering and science.

The Department of Chemistry conducted an online orientation programme on NPTEL on Friday, 3rd December 2021 at 5.00 PM through Google meet. 43 students participated in the workshop.

A presentation slide titled "NPTEL MOOC" with a list of four bullet points. The slide has a white background with a dark blue border on the left and bottom, and a gold-colored decorative element at the bottom left. The text is in a sans-serif font.

NPTEL MOOC

- Massive Open Online Courses (MOOC) - an asynchronous platform and a process for teaching through pre-recorded lectures, resource video materials, lecture notes, assignments and quizzes, which are usually online and provide self assessment in regular intervals during learning.
- Courses open for anyone to access – at no cost.
- Anyone interested in learning gets access to quality content, which also includes discussion with the content creator and access to assignments for self testing.
- Faculty are from the IITs or from other reputed institutes such as CMI, IIMSc etc.

ONAM CELEBRATION 2021

As a part of Onam celebration, the department of Chemistry St. Mary' college organized an online "ONAPPATTU COMPETITION" on 17/08/2021. Students participated by sending a video record of their solo songs. The number of entries received was eight.



Department of Chemistry
St .Mary's College, Thrissur

Organizes

1st Prize 500/-

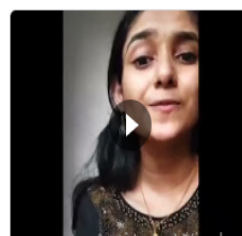
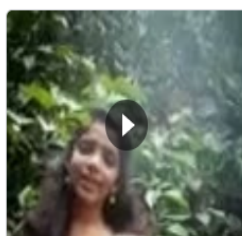
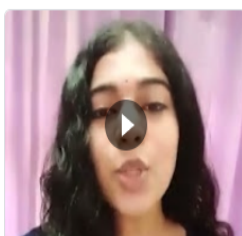
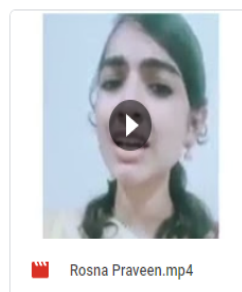
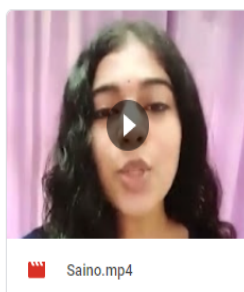
Onappattu competition

Video record your solo song & send your entries to
chemistry.dept@smctsr.ac.in

Duration:3 Minute
Submit your entries before 17/08/2021

Organizing Committee: Dr. T. Geetha, Dr. Manju Sebastian,
Dr. Binoy Joseph, Ms. Jain Philo, Mariya Sandra

The poster features a central illustration of Lord Venkateswara of Tirumala on a chariot, with a woman in traditional attire in the foreground. The background is yellow with palm tree silhouettes. The college crest is in the top right corner.



ACTIVATE WINDOWS

HARITHAM WORKSHOP

2021-2022



Chemistry is a big part of our everyday life. Even our body is made of chemicals. Future of the world is on the hand of students. Applying chemistry in to practical life uplift the standard of living. During this pandemic scenario necessity of cleaning agent's increases day by day. Cleaning agents available in the market are really expensive. So the thought of cleaning agent's preparation by ourselves is very relevant today. Department of chemistry St. Mary's College Thrissur organized '*HARITHAM WORKSHOP*' a wonderful opportunity to apply chemistry in our daily life on October 13,2021 at chemistry lab for post graduate students. Mr. Sreejith V. S, Technical officer

Vigyan Sagar Thrissur guided the workshop. Dr.T Geetha HOD welcomed sir to the workshop.

Soap,pain balm,Sanitizer,Hand wash, and Phenyle were prepared in the workshop. Haritham workshop helped everyone to realize that we can easily make cleaning agents at our home itself at low cost.Scope of chemistry is beyond our textbooks and we can apply it easily to our daily life .

National Science Day 2022

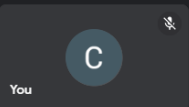
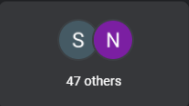
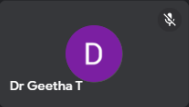
National science day is celebrated all over India with great enthusiasm on February 28th every year to commemorate the discovery of Raman Effect by Indian physicist Dr C.V Raman. On 22th February 2022, the department Chemistry, St. Mary's College, Thrissur conducted a talk on "***Ocean & Global Warming***" by Dr. Shaju S .S, HOD, Department of Chemical Oceanography, CUSAT, Cochi. The program started at 10.30 with a prayer followed by a welcome address and Presidential address by Dr. T. Geetha (HoD). The talk ended with a Vote of Thanks.

Total number of participants: 61

shaju s.s is presenting

Carbon cycle in the Ocean

The diagram illustrates the ocean carbon cycle. On the left, land-based activities like factories and cars release CO₂ into the atmosphere. On the right, a ship also releases CO₂. In the center, the ocean surface shows CO₂ being absorbed from the atmosphere. Below the surface, the cycle is divided into biological and geological processes. Biological processes include Photosynthesis (where CO₂ is taken up by phytoplankton), Microbial Respiration (where CO₂ is released), and Zooplankton Feeding (where CO₂ is released). Geological processes include Particulate Carbon Flux (where CO₂ is released from sinking particles) and Oceanic Carbon Flux (where CO₂ is released from the ocean floor). A text box at the bottom right states: "The ocean holds 50 times more CO₂ than the atmosphere".



People

Mute all Add people Host controls

- NEHA JAYK SMC
- NehaThasnim VN
- Nishana K. S
- NISMA N V
- RAHANA.C.R.SMC
- REHANA K H
- Reshna K M

10:52 AM | ymv-ejdf-gyw



Activate Windows
Go to Settings to activate Windows.

The screenshot shows a Google Meet window with a presentation slide titled "Oxygen minimum Zones (OMZ)". The slide contains a line graph on the left showing "ml O₂ per liter" on the x-axis (0 to 5) and "Depth (m)" on the y-axis (0 to 4000). The graph shows a sharp drop in oxygen concentration between 1000m and 2000m, labeled as the "Oxygen minimum zone". To the right of the graph is a 3D diagram of the ocean's vertical layers: Euphotic (0-200m), Mesopelagic (200-1000m), and Deep-sea (1000-4000m). Arrows indicate "Oxygen production" in the euphotic zone and "Oxygen consumption" in the mesopelagic and deep-sea zones. The bottom of the screen shows the Windows taskbar with the time 11:01 AM and date 2/22/2022.

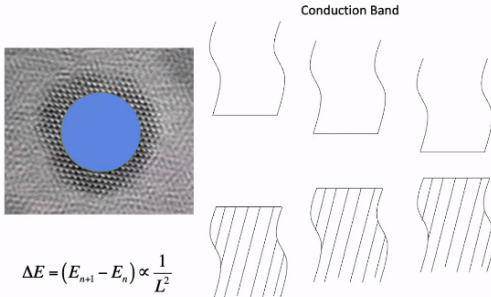
Association Inauguration 2021-22

The Chemistry Association was inaugurated on 18th February 2022 by Dr. Pralay Santra (Scientist- D, Center for Nano and Soft Matter Research, Bengaluru). The program started at 10.30 with a prayer followed by welcome address and Presidential address by Dr. T. Geetha (HoD). The talk was delivered on Nanoscience for Materials Research. The talk ended with a Vote of Thanks.

The google meet link code was ohi-ufgu-uif

Pralay Kanti Santra is presenting

Nanomaterials – Property changes with size!



Conduction Band

Valence Band

$$\Delta E = (E_{n+1} - E_n) \propto \frac{1}{L^2}$$

Grid of participant avatars:

- Pralay Kanti Santra (video)
- Mariya sandra ks ...
- Dr Geetha T
- Aiswarya C S SMC
- Jeslin joy SMC
- MUMTHAZ K M
- Anjitha P B
- 92 others
- You

11:05 AM | ohi-ufgu-uif

Activate Windows
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11:05 AM
2/18/2022

Inbox (84) - remyagovind.k@smc X Meet - ohi-ufgu-uif X +

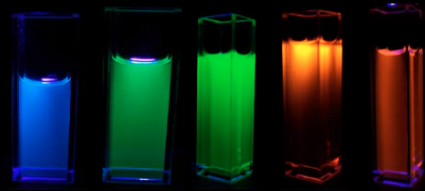
meet.google.com/ohi-ufgu-uif?pli=1&authuser=0

Apps YouTube Maps

Pralay Kanti Santra is presenting

PowerPoint Slide Show - (20211112_Nanomaterials College SANTRA.pptx)

Optical Properties of Nanomaterials (unusual and interesting)



ANAGHA T. S has left the meeting

Are you talking? Your mic is off. Click the mic to turn it on.

11:07 AM | ohi-ufgu-uif

Activate Windows Go to Settings to activate Windows.

Type here to search

11:07 AM 2/18/2022

Inbox (84) - remyagovind.k@smc X Meet - ohi-ufgu-uif X +

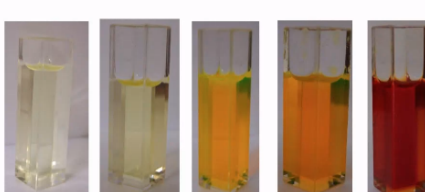
meet.google.com/ohi-ufgu-uif?pli=1&authuser=0

Apps YouTube Maps

Pralay Kanti Santra is presenting

PowerPoint Slide Show - (20211112_Nanomaterials College SANTRA.pptx)

Optical Properties of Nanomaterials (unusual and interesting)



11:07 AM | ohi-ufgu-uif

Activate Windows Go to Settings to activate Windows.

Type here to search

11:07 AM 2/18/2022

Haritham Products Sale

The sale of products prepared during the Haritham workshop was conducted on 08th March 2022. College Principal Sr. Dr. Magie Jose inaugurated the sale at 9 am. The items for sale were Paper bags, Soaps, Sanitizer, Hand wash, Phenyle and Pain balm. A total of Rs. was collected by selling the different products.



 **St. Mary's College Thrissur**
Department of chemistry

Haritham Product Sale

Venu : Kalajyothi Open Stage

Date & Time : 8th March 2022 , 10 Am

Haritham Product: Paper Bag, Soap, Sanitizer, Hand Wash, Phenyle, Pain Balm







