



7.1.3 Clean and Green Campus Initiatives

RAIN WATER STORAGE UNIT

Rainwater harvesting systems is installed inside college campus to collect and store rainwater.



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RAIN WATER HARVESTING UNIT



SAAKALYA: A GREEN INITIATIVE OF SNM COLLEGE TO SAVE OUR EARTH AND PROTECT ENVIRONMENT

SAAKLYA focuses on sustainable development through education, research, community partnerships, curricular and co-curricular aspects. It stands as a powerful endeavor to preserve our planet and protect the environment, conducts various programmes related to environmental protective measures and extends its activities towards the public. harvesting systems is installed inside college campus to collect and store rainwater.

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BOREWELL

The college has two borewells, one located within the campus and the other serving the college hostel.



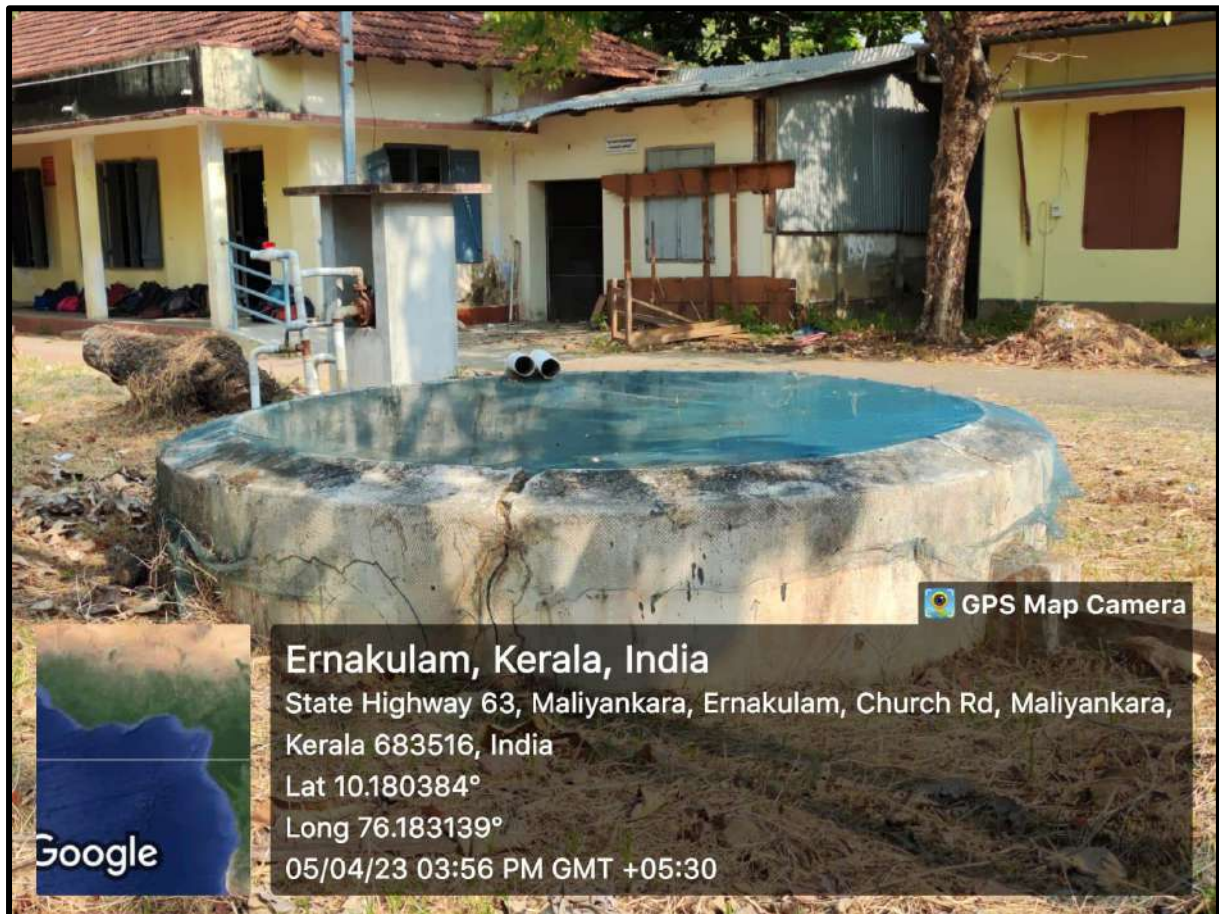
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MAINTENANCE OF WATER BODIES

The college maintains its three open wells on a regular basis to ensure a continuous and safe water supply. The water from OPEN wells is collected in SIX tanks of TOTAL capacity 10000 L.

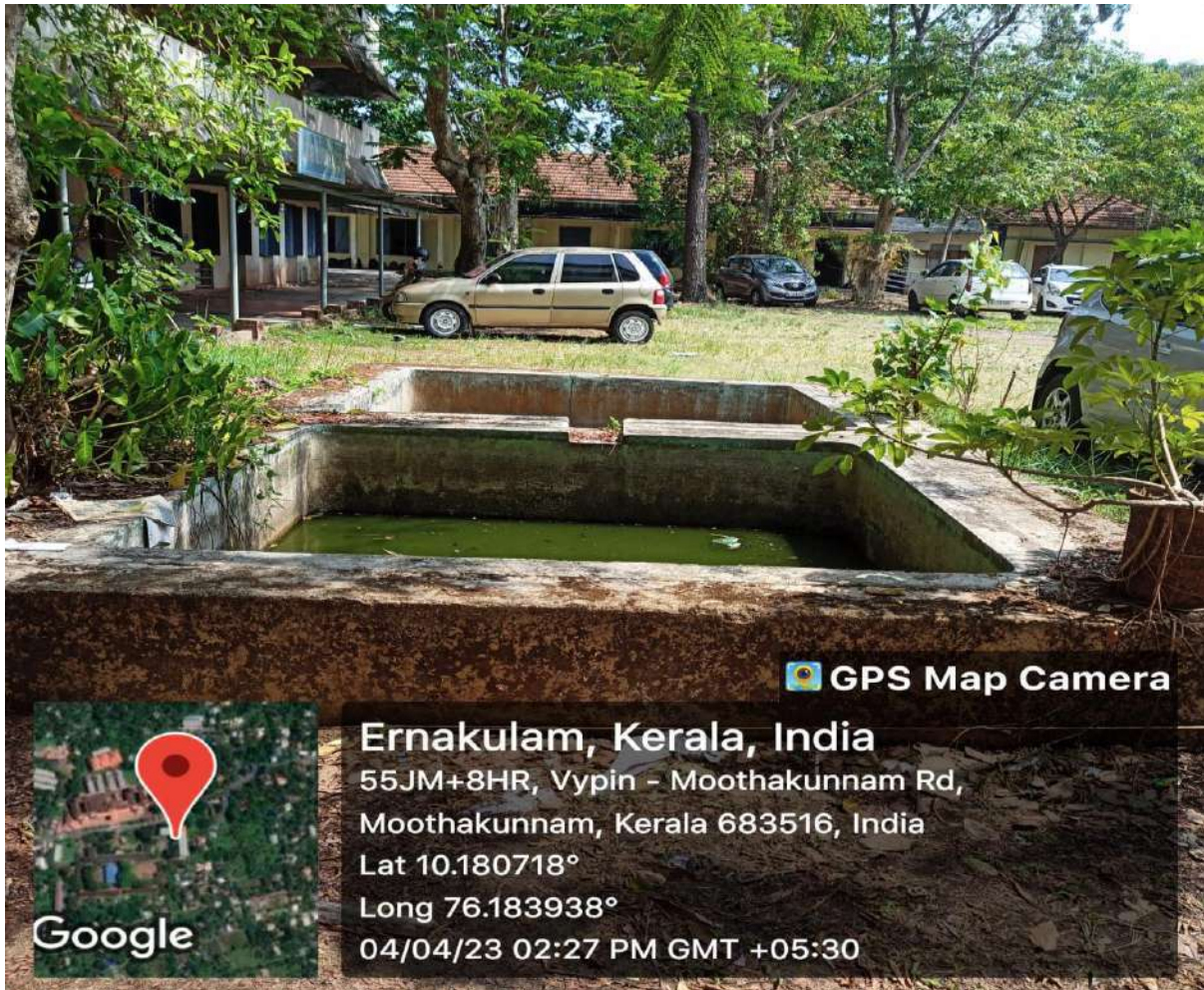


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CONSTRUCTION OF TANKS



Tanks have been constructed within the campus to collect rainwater, which is then utilized for the cultivation of aquatic plant specimens such as freshwater algae and pteridophytes.

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AWARENESS DISPLAYBOARDS

To create awareness about conserving water among the students, sign boards are installed.



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WATER CONSERVATION INITIATIVE

SNM college has a **Water Analysis Laboratory recognized by Kerala State Pollution Control Board**. The estimating parameters are, water and waste water pH Temperature, Dissolved Oxygen, Turbidity Salinity Nitrate Nitrite Silicate, Phosphate, Chlorophyll a, microalgal identification, primary productivity etc.

[Water Analysis Laboratory](#)

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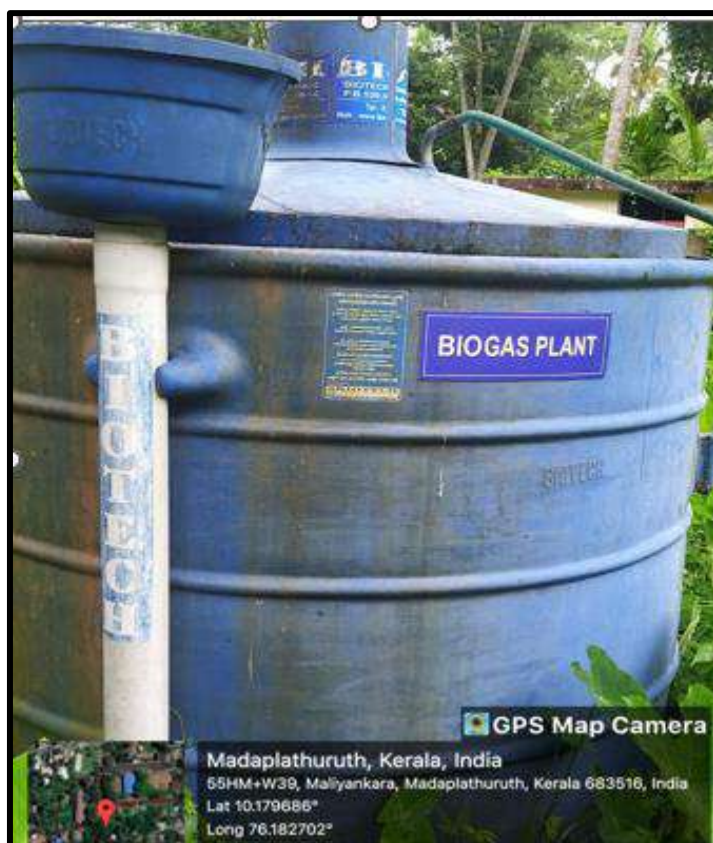


PAPERLESS OFFICE AND COMMUNICATION

The institution adheres to online platforms and services to go paperless in administrative and departmental affairs. The college has a policy to minimize the use of paper in all types of official/academic communication of the college through E- Communication. Class-wise, Department wise, Committee wise What's app groups have been formed which have reduced the usage of paper in notices and circulars. Students are directed to write assignments on both sides of a sheet to reduce paper wastage. We also encourage students to submit assignments through LMS Moodle platform

Biogas Plant

Bio-gas unit is established in the canteen premise of the college. The organic waste material collected from the college campus, is used in the biogas plant to produce renewable biogas energy. This energy is used in the canteen for cooking.



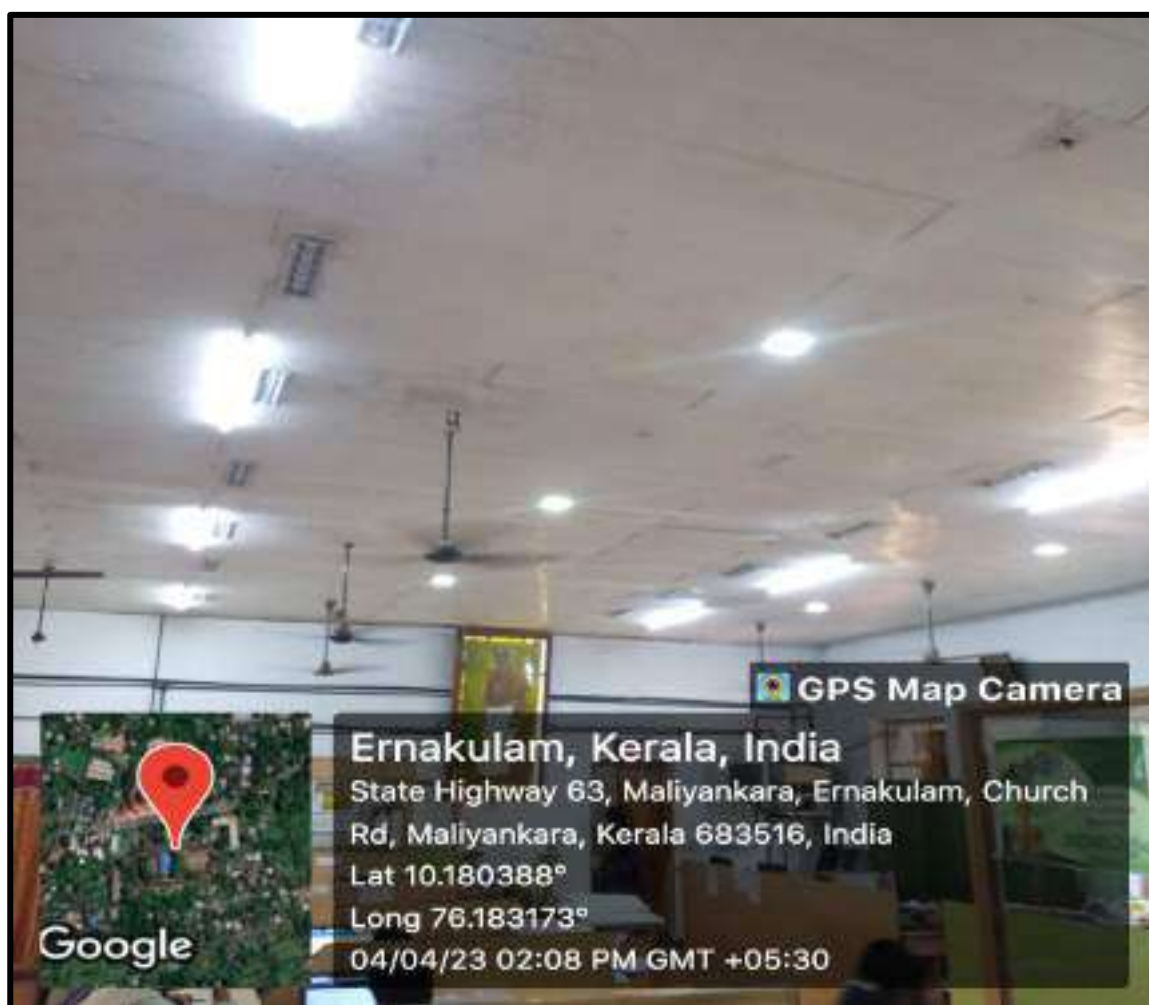
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Promotion of Usage of LED bulbs as part of Energy Conservation measure.

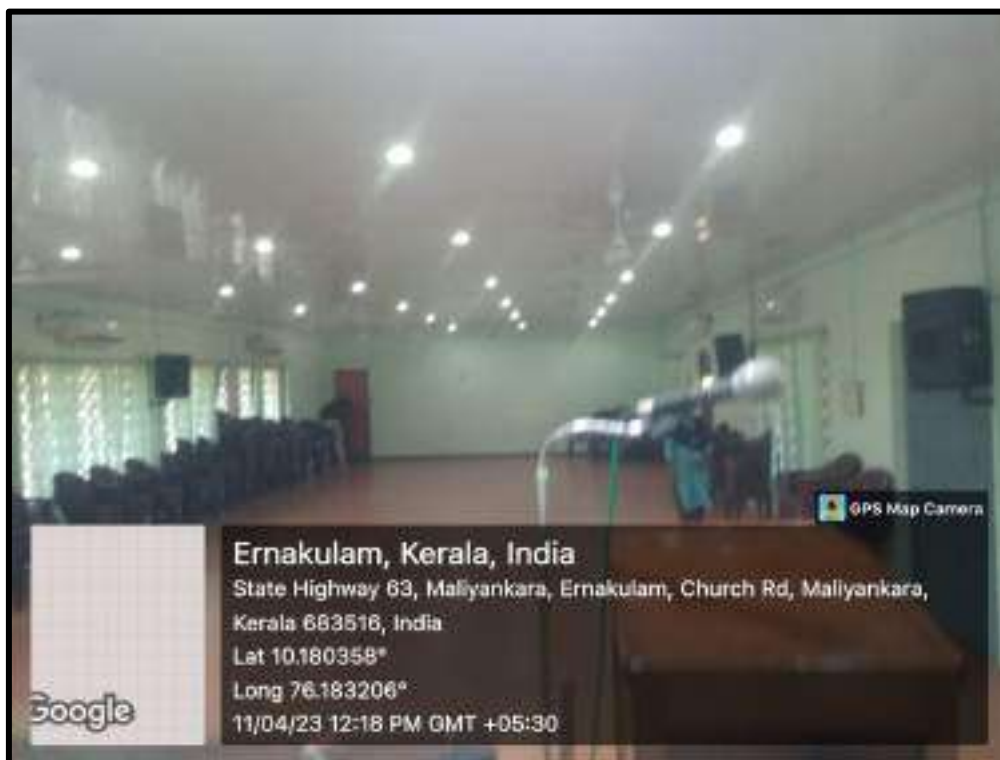
The college actively encourages LED usage across its campus, replacing worn-out bulbs with energy-efficient LED bulbs, and planning to transform into 100% LED lighting.



LED Bulbs in the College Office

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LED Bulbs in the Seminar Hall



LED Bulbs in the College Library

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Awareness Display Boards

To create awareness about the energy conservation among the students, sign boards are installed in class rooms and Labs.



At Physics Lab



At Computer Lab in the self-financing Wing

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USE OF BICYCLES



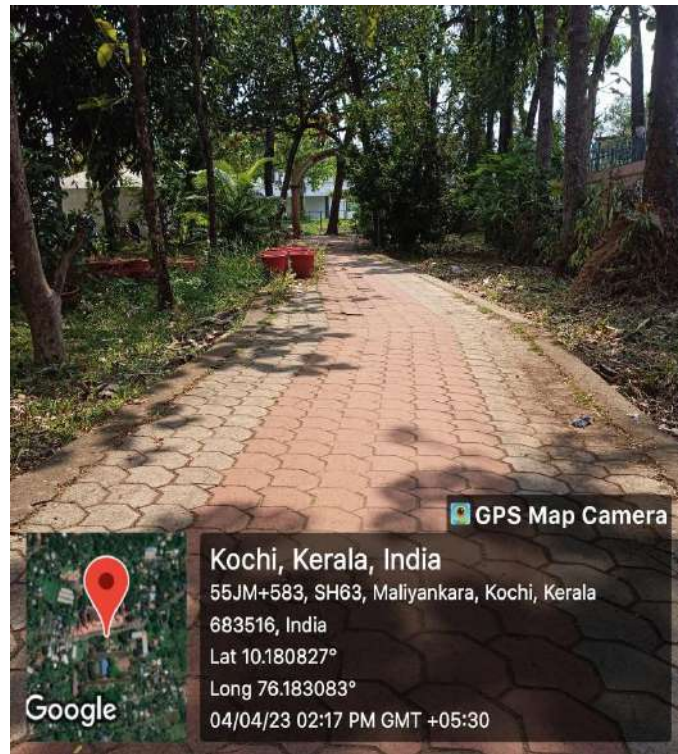
A **Cycle Rally** on 8th June 2022, in celebration of **World Ocean Day** to raise awareness about the critical **importance of saving the ocean and protecting the environment**.



A **Cycle Rally** on 19th August 2022, as part of **awareness** programme about the **importance of the ocean**



PEDESTRIAN FRIENDLY PATHWAYS



Pedestrian friendly pathway leading to CB Block



Pedestrian friendly pathway near to College Auditorium

HARITHA KARMA SENA

HARITHA KARMA SENA – Green Army was formed for spreading the awareness about environmental issues and various measures to reduce these issues and protect the environment in a sustainable way. The first year and second year students are the members of this Green Army. The volunteers of the sena had cleaned public places and collected plastic waste and treated it systematically by the help of local bodies



BAN ON USE OF PLASTIC

We ensure a complete ban on plastic carry bags and a limited use of plastic products. The institution abides to the green protocol and insists on the use of carry bags made with cloth



LANDSCAPING WITH TREES AND PLANTS

We take initiative to plant trees and also take a great care to maintain the bio diversity in the campus.





S.N.M. COLLEGE, MALIANKARA

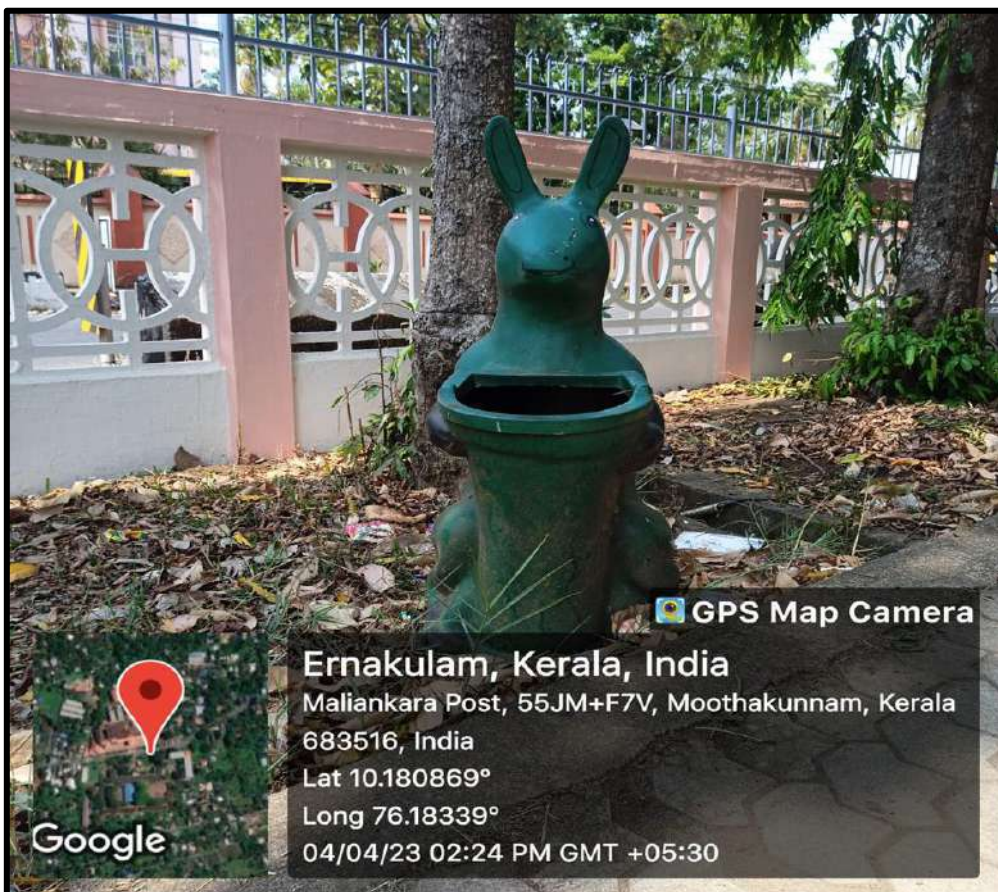


7.1.2 Management of the Various Types of Degradable and Nondegradable Waste

Dustbins Provided in the Campus

Proper dustbins are placed throughout the campus to collect plastic and paper waste, to ensure clean and healthy learning atmosphere.











Eco -friendly practices

Institution urges students to follow the green protocol in their academic affairs.

The use of plastic is strictly prohibited during the programmes conducted. We encourage our staffs and students to use banners of cloth or paper and the usage of steel or glass bottles.





Incinerator

The college has installed Incinerators for the disposal of sanitary pads in the Girls' Common Room and in selected toilets as a step towards eco-friendly disposal mechanism





Vermicompost Unit

Vermicomposting is practiced in the campus under the supervision of departments Zoology and Botany





Energy Conservation Activities

Energy Conservation Measures Adopted by SNM College are,

The college management has designed and constructed classrooms with **ample natural light and effective ventilation** to create an optimal learning environment for students.

The college promotes energy conservation by encouraging students and staff to **switch off or unplug** fans, lights, air conditioners, computers, printers, and other electrical equipment when they are **not in use**.

The college actively fosters awareness of environmental consciousness and sustainability among various stakeholders through the distribution of circulars and the organization of diverse awareness programs.

SAAKALYA, a green initiative by S.N.M College, stands as a powerful endeavor to preserve our planet and protect the environment, conducts various awareness programmes

The college formed the **Energy Conservation Club– Student Chapter**, a dedicated group of students and staff committed to raising awareness and instilling a culture of energy efficiency on our campus. It is formed with an objective to educate, encourage and enable young adults to save energy so that the ongoing energy crisis can be addressed in a most effective manner. Also, it aims to improve students' understanding of day-to-day energy consumption profile and create awareness on energy conservation and energy efficiency.

[energy-conservation-club-student-chapter](#)

The college has organized **workshops for the manufacture and repair of LED bulbs** as a **Step Towards Eco-Friendly Lighting**.

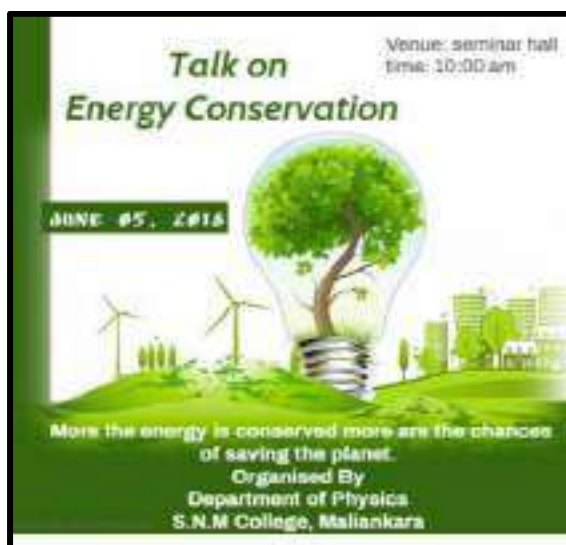
The college has organized **awareness events** about the importance of conserving energy inside the college community and also in the adopted village.



Programmes /Events initiated by the institution related to Energy Conservation during the last 5 years

Talk on “Energy Conservation Measures”

Energy Conservation Club conducted a **talk on “Energy Conservation”** on 5th June 2018 in association with the Department of Physics. The resource person was Dr. Vimala George, Assistant Professor, Department of Physics, St: Xavier’s college, Aluva. Resource person talked about the need for energy conservation in today’s world and the various ways of implementing them. She also discussed the benefits of energy conservation with the students. The talk was very **effective in creating awareness on energy conservation among students**. The resource person explained about effective measures to reduce energy consumption in the households.



Brightening Maliankara: A Step Towards Eco-Friendly Lighting

NSS unit and the Department of Physics jointly organized a **workshop called "Make Your Own LED"** at our college, inviting both students and local residents to participate. The resource person, Mr. Sabir, operator engineer, KSEB, Malappuram handled the training session. The workshop was a great success, as it empowered our volunteers and participants to create more than 200 LED bulbs. These LED bulbs were then made available to the community at an affordable price, making it easier for everyone to switch to a more environmentally friendly lighting option.

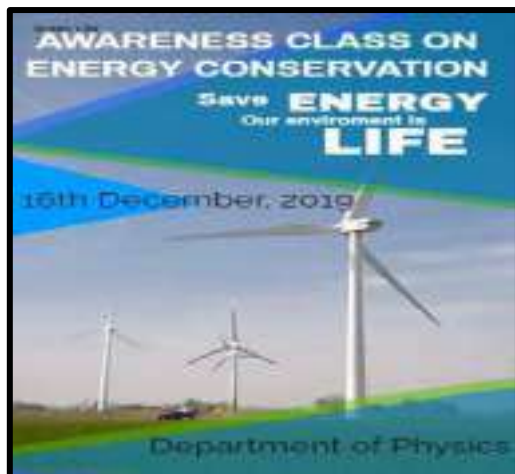


LED Bulb Making on 6th March 2019



Awareness Class on Energy Conservation

The Department of Physics organised an **enlightening awareness session on energy conservation**, catering to both students and public on December 16, 2019. The session was facilitated by Mr. Biju. P, Assistant Engineer at KSEB, Moothakunnam. The class encompassed a range of topics, including efficient energy conservation techniques, essential safety precautions when dealing with electricity, and simple strategies to curtail electricity bills.



Workshop On LED Bulb Making

Workshop on LED bulb making was conducted by the Department of Physics in association with NSS unit on 26th February 2020. The resource person, Mr. Sabir, Engineer, KSEB, Malappuram handled the training session. Students and faculties were the participants. Students were given training on the manufacture and repair of LED bulbs. All the participants learnt the use of electronic tools like soldering iron, soldering wax, soldering wire, Diode, Resistance, Capacitor, PCB. They made more than 50 low-cost seven-watt LED bulbs and these LED bulbs were distributed among staff and other local people free of cost. There were 35 participants. The technical session on LED bulb manufacturing and repairing was very **effective in creating awareness on using LED bulbs as part of energy conservation.**



Webinar on Energy Conservation: KSEB: Soura Project

Energy Conservation Club Student Chapter conducted an **online seminar based on KSEB: Soura Project** on 1st September 2021 in association with the Department of Physics. The program aimed at **inculcating energy conservation habits and to create awareness about new energy technologies among students**. Mr. Shafeeq A, Assistant Engineer, KSEB, Palakkad was the resource person. He talked about the KSEB Soura project, its perspectives and challenges. He discussed that in this subsidy initiative, there were three hybrid models introduced by KSEB which is based on the average electricity consumption of the consumers



Energy Conservation Day celebration: A Talk on Energy Conservation

Energy Conservation Club- Student's Chapter organized a talk on 'Awareness on Energy Conservation' on 13th December 2022 as part of **Energy Conservation Day celebration**. The session was handled by Mr. K. M. Shanavas, Joint Director, Kerala State Productivity Council,



Kalamaserry. The resource person elaborated on the **ways of conserving energy sources**. The session proved to be beneficial for the UG and PG students of the college.



Awareness Class On Energy Conservation Measures And Environmental Conservation

The Dept. of English initiated an awareness class with the objective of creating awareness on energy conservation measures and environmental conservation. III BA English students had taken an awareness class for school students of Govt LP School Pallipuram and HMYHSS LP School Kottuvallikad on 23/2/2023, 28/2/2023. Small tips and hints are given to them in order to control the wastage of energy.



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Management of the Various Types of Degradable and Non-degradable Waste

SNM College is committed to promote sustainable waste management practices to reduce the environmental impact of its operations. One of the institution's principle is to keep the campus in pristine condition in order to provide a conducive environment for academic and non-academic interests. All stakeholders follow good hygienic practices as well as a comprehensive waste management plan. The core concern is to reduce, reuse and recycle wastes generated in the campus.

Solid waste management

- As part of the green protocol, all the departments have been conducting programmes with paper or cloth banners, to avoid plastic usage, and serve tea in steel glasses.
- All Departments, laboratories, and Classrooms are provided with dustbins for dry waste disposal.
- The Solid waste generated on the campus is segregated as bio-degradable and non-bio-degradable wastes.
- **Biogas Plant:** The organic waste material collected from the college campus, is used in the biogas plant to produce renewable biogas energy. This energy is used in the canteen for cooking.
- **Incinerators:** The college has installed Incinerators for the disposal of sanitary pads in the Girls' Common Room and in selected toilets as a step towards eco-friendly disposal mechanisms.
- **Vermicomposting** is practiced in the campus under the supervision of departments Zoology and Botany.
- Non-biodegradable wastes are handed over to Haritha Karma Sena of Vadakkekara panchayat as part of the Swathh Bharat Mission and "Collectors at College".



- The College has signed an MoU with **Greenland Eco Industries** to lift the dry waste from the campus. [Solid waste MoU Link-](#)
- Apart from the solid waste management in the college campus, the **Haritha Sena under the NSS Unit of the college**, functions to collect used plastics during the local festivals and hand them over to Panchayat.

Liquid waste management

- One Soak Pit for groundwater recharge is constructed for non-hazardous liquid waste generated from labs.

Biomedical waste management

- On campus, no biomedical waste has been generated.

E-waste management

- E-waste management is carried out through the Department of Physics. Components and other small devices/parts of non-repairable equipment are used to fabricate new experimental kits/power supplies.
- The unwanted computer machines/devices/printers/scanners/keyboards/mouse, etc. are transferred to external agencies through MoUs.
- For dispose-off e waste materials, signed two Mous with
Aspire Greens, Parutheli Jn, Kanjirathingal Building, Marottichuvadu, Edappally, Ernakulam - [E-waste MoU Link-](#)
Prudent Technologies, 243/2, Lokamaleswarom, Kodungallur, Thrissur: all forms of e-waste and or e-scrap collected out of discarded electronic equipments of all kinds. [E-waste management MoU Link-](#)

Hazardous chemicals and Radioactive waste management

- Hazardous chemical wastes in the laboratories are safely disposed of in a marked basin and collected in a separate tank outside, then carried away by the firm for treatment.

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Green Campus Activities 2022-23

World Environment Day- Tree Plantation Program

On June 5th **World Environment Day**, NSS volunteers organized a **tree plantation program** at college campus. The volunteers also distributed plant saplings to all the participants to encourage them to grow plants at their homes. The volunteers were divided into groups, and each group was assigned a specific area of the campus to plant trees and plants. The plantation drive began with a brief introduction by the NSS coordinator about the significance of World Environment Day and the importance of planting trees. The event not only helped in enhancing the green cover of the college campus but also **created awareness among the volunteers about the importance of planting trees and the need to protect our environment**. NSS volunteers cleaned the college premises and its nearby area on the occasion of Environment Day.



On 5th June 2022, NCC unit **virtually** conducted a **tree plantation program**. All the cadets planted a sapling in their home premise



World Environmental Day: Seed Collection of Fruits

As part of ‘**World Environmental Day** and Azadi ka Amrith Maholsav’, the Research Department of Botany conducted a **seed collection of fruit** plants in collaboration with the Zoology Department and Fruitful Future, (An initiative of Grassroute, NGO, working for environmental conservation for sustainable future) Edavanakad on 5th June 2022. The concept of this program was that the thrown-away seeds of local varieties were collected for creating seed banks and **creating fruit forests** in limited space.





World Environmental Day: Talk on Environment

To create awareness among students on the **importance of conservation of our environment and natural resources**, Department of English celebrated **World Environment Day** on June 6th 2022. All the students and faculties actively participated in the gala. In the Eco Fiesta, following the theme “Only One Earth” there was a talk on Environment by Dr Sanilkumar M. G., Head and Research Guide, Department of Botany. The session proved to be a lively one. The department also conducted various events for students such as speech competition, video presentation, recitation and quiz. Prizes were also distributed to the winners



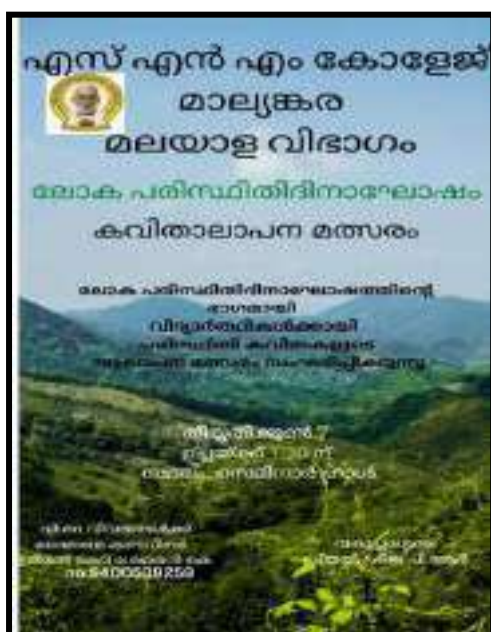
World Environment Day: Quiz Competition

The Department of Economics organized a **quiz competition** in connection with World Environment Day on 6th June 2022. The program was conducted **to inculcate good values among students for sustaining environment**. The Department of Physics won first prize in this competition.



World Environment Day: Poem Recitation Competition

Malayalam department conducted a poem recitation competition on 7th June 2022 in connection with commemorating World Environment Day. Poems related to nature and environment was recited as part of the competition. Program was very effective in **build awareness of environment among students**. Mrs. Ragi Sekharan K., Assistant Professor, Department of Malayalam explained about the importance of environment and ways to maintain our environment for our future generation.





World Environment Day: Collection of fruit seeds

Department of Commerce celebrated World Environment Day on 6th June 2022. A speech was delivered on 'Nature and its preservation' to **draw attention to environmental issues and motivate youngsters to live in harmony with nature**. 66 students participated in the program. The students collected locally available seeds and plants and handed them to Head of the department to plant in suitable locations within the campus.



World Environment Day: Plant with Love

The Department of Mathematics and Statistics organized the event "Plant with Love" as part of the Azadi ka Amrit Mahotsav celebration. The event effectively **spread awareness about environmental conservation, encouraged tree plantation**, and witnessed active participation from students and faculty members. The Plant with Love program took place on 9th June 2022, in the Mathematics department. The event was inaugurated by Mr. Ajan K. A., Head of Mathematics Department, along with Dr. Linu M. N., Head of Statistics, who planted trees to mark the beginning of the program. The inauguration ceremony was followed by a well-researched speech delivered by Mr. Ajan K. A. He shed light on the current state of our environment and emphasized the urgency of tree plantation for ecological preservation. He motivated and encouraged all the students to actively participate in tree plantation activities. After the inauguration, the "Buds for Loved Ones" event took place. Students showcased a collage exhibition of photos featuring the plants



they had planted at their homes. Additionally, each class contributed a plant, further enhancing the greenery within the campus.



World Environment Day: Environment photography and Ecocraft

Department of Business Administration (SF), coordinated an event “**ECOLOGICO**” in connection with World Environment Day on 9th June 2022. The program covered **Environment photography and Eco-craft**. The students from different departments participated in the event and prizes were distributed.





Dry Day : Campus Cleaning

NSS volunteers cleaned the college campus as part of **dry day** on 17th June 2022. The event was attended by 100 NSS volunteers. The event was aimed at **cleaning the campus and promoting the idea of responsible waste management**. The NSS volunteers were divided into five groups, and each group was assigned a specific area of the campus to clean. The volunteers were provided with gloves, masks, and brooms to carry out the cleaning work. The volunteers cleaned the classrooms, corridors, and the college ground. The cleaning drive went on for a few hours, and the volunteers worked tirelessly to collect the waste scattered around the campus. The collected waste was then segregated into two categories- organic and plastic.

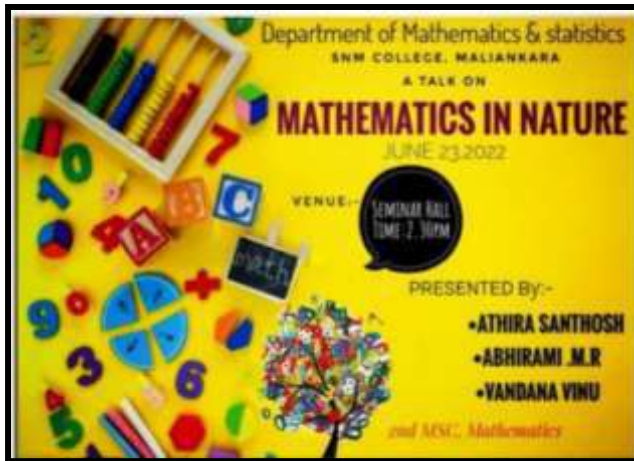


Seminar on "Mathematics in Nature"

A seminar on the topic "**Mathematics in Nature**" was conducted by the Department of Mathematics and Statistics on 23rd June 2022. The seminar was organized by 2nd-year M. Sc. Mathematics students. Students from the Mathematics, English, Physics, and Chemistry departments attended the seminar. The paper presentations began with Ms. Vandana Vinu presenting on the topic of "Fibonacci Sequence in Nature." She provided a detailed view of the Fibonacci sequence and its influence on plants, flowers, and animals. The presentation was well-researched and **shed light on the fascinating connections between mathematics and the natural world**. Following that, Ms. Athira Santhosh delivered an informative session on the "Golden Ratio," which defines the beauty found in nature. Her presentation explored how this mathematical concept is used to measure



the aesthetic appeal of objects. The talk offered valuable insights into how mathematics plays a role in determining and appreciating beauty in the natural environment. Another intriguing topic covered during the seminar was "Fractal Geometry in Nature," presented by Ms. Abhirami M. R. This session discussed about the arrangement and patterns observed in various creatures in nature. The presentation provided an overview of how fractal geometry can explain the intricate structures found in natural system.



A webinar on Sea Foods in Human Nutrition

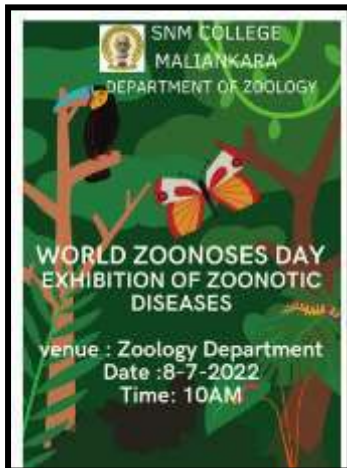
To create **awareness on the impact of sea food on human nutrition**, a webinar on ‘Sea Foods in Human Nutrition’ was conducted on 3rd July 2022 at 10.30 am by Zoology Department in **collaboration with ICAR-Central Institute of Fisheries Technology, Cochin. Dr Pavan Kumar Dara**, Research Associate, ICAR-Central Institute of Fisheries Technology was the resource person. The program helped to know the impact of sea foods on human health and nutrition. Sixty students participated in the webinar.





World Zoonoses Day

Department of Zoology celebrated World Zoonoses Day on 8th July 2022. Students of IIIrd B. Sc. and M. Sc. classes made charts of various zoonoses diseases and exhibited in front of the department. The exhibition **helped to understand various zoonotic diseases prevalent in Kerala.**



Exhibition about Dhashapusham (Ten Sacred Flowers of Kerala)

To create awareness about the importance of Dhashapusham, Department of Botany organised a **ten-day awareness exhibition** about Dhashapusham from 25th July 2022 to 17th August 2022 in the department portico. Dasapushpam constitutes a group of ten **potential herbs which are culturally and medicinally significant to the people of Kerala.** These plants are therapeutically very **active for various diseases and ailments.** Many of them are traditionally used from time immemorial. The twig of each of the 10 plants was displayed along with details of a common name, scientific name, family and a brief description about its medicinal importance.



Khadi Fest

To promote Khadi products and create self-reliance among the students and to build up a strong rural community spirit, Department of Commerce organized Khadi fest on 22nd and 23rd August 2022 from 10AM to 4PM in the college auditorium. **Khadi clothes and handmade products were displayed** for sale. The teachers and students of various departments purchased the products and clothes. Special discounts and rebates were provided. The products were of affordable price Khadi dress materials like sarees, churidars, blanket, pillows, organic skincare products and natural honey were the main attractions of the exhibitions.





World Ozone Day: Inter-Departmental Quiz Competition

As part of **World Ozone Day**, an inter-departmental quiz competition was conducted by Department of Chemistry on 19th September 2022. Sneha V. J., a first-year M. Sc. Chemistry student, was the Quiz Master. The quiz comprised of three levels, and each level had ten questions. The participants were divided into eleven teams, with each team consisting of two students. The teams were awarded a single mark for each correct answer. The quiz competition witnessed enthusiastic participation from the students. They showcased their brilliance by rapidly answering the questions. After the three levels of competition, Dinu K. D. and Vishnupriya K. P., second-year B. Sc. Mathematics students, bagged the first prize. The second prize went to Vishnu M. A. and Anjaney Sunilkumar, also second-year B. Sc. Mathematics students, while the third prize was awarded to Manuraj and Hridhya, second-year M. Sc. Physics students. Later, Aiswarya K. P., a second-year M. Sc. Chemistry student, delivered a speech on the importance of World Ozone Day and the **need to protect the ozone layer**.



World Ozone Day: Best out of Waste Competition

Department of Zoology organized an **interdepartmental competition “Best out of Waste”** on 19th September 2022 in connection with World Ozone Day. The aim of the program was to get **maximum practical benefits from products and to generate the**



minimum amount of waste. The program helped to understand how to preserve our environment by reusing and recycling waste materials.



Gandhi Jayanthi Celebrations

NSS Unit celebrated the 153rd Gandhi Jayanthi on October 2nd. The NSS volunteers were divided into five groups with leaders, and they **cleaned the campus section-wise**. The collected wastes were segregated into different categories like plastic, organic, rubber for further management.





The Department of Economics celebrated **Gandhi Jayanti** by **cleaning the department and campus premises**. The program was held on 12th October 2022. All the staff and students actively participated in the cleaning activities. As part of the beautification of the department, a few indoor plants were placed in front of the department.





Seminar On Science and Sustainable Development

Botany department conducted a seminar on 'Science and sustainable development' by Mr. Prajesh Parameswaran on 14th November 2022. Mr. Prajesh Parameswaran, Senior Scientist Community Agrobiodiversity Centre, M. S. Swaminathan Research Foundation, Wayanad inaugurated the function. The teachers of all departments and the entire student community of Botany attended the seminar. This seminar envisaged the **opportunities, challenges and role of science in sustainable development**. The resource person explained the importance of scientific knowledge for sustainable development. Students identified the major sustainability challenges and understand how to overcome such challenges.



Energy Conservation Day celebration: A Talk on Energy Conservation

Energy Conservation Club- Student's Chapter organised a talk on 'Awareness on Energy Conservation' on 13th December 2022 as part of **Energy Conservation Day celebration**. The session was handled by Mr. K. M. Shanavas, Joint Director, Kerala State Productivity Council, Kalamaserry. The resource person elaborated on the **ways of conserving energy sources**. The session proved to be beneficial for the UG and PG students of the college.



A Talk on Zoonotic Diseases

To spread awareness on common Zoonotic diseases, Department of Zoology conducted a talk on 31st January 2023 by Dr. Shaji E. M., Associate Professor and Head, Department of Zoology, KKTU Govt. College, Pullut. The resource person explained the sporadic increase of zoonotic diseases in the present scenario.



World Wetland Day: Wetland Photography contest

As part of World Wetland Day, Department of Botany conducted Wetland Photography contest at college level on 2nd February 2023. The theme was “Wetland: Supporting



life, sustainable livelihoods”. The program aimed to develop photography skills and to **raise awareness about wetlands**. Botany department circulated the brochure regarding this contest through college groups and shared it with all departments and encouraged the student’s participation. Few students participated in this competition. Results were published through our college group. Adwaith K. J. (Ist B. Sc. Zoology, Arya Raju (IIIrd B.Sc. Botany) and Saniya V. S. (Ist B. Sc. Botany) secured first, second and third position respectively.



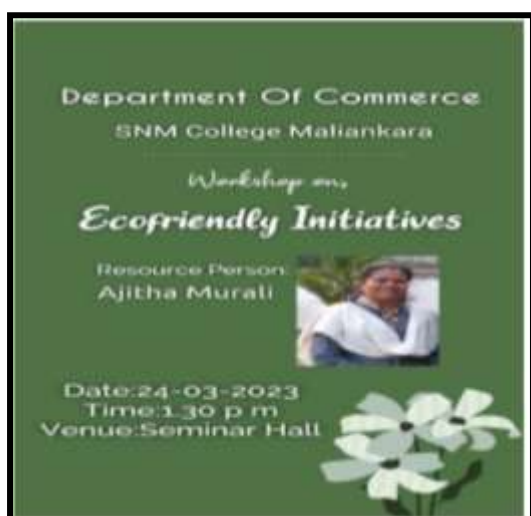
Zoological-Museum Specimens : Exhibition

The Zoological-museum collection is an important teaching resource for the Department of Zoology. It has a collection of specimens belonging to the different phyla of the animal kingdom. Department of zoology conducted an **exhibition of museum specimens** on 28th February 2023 in connection with National Science Day. 156 visitors explore the beauty of animal life. The visitors made positive review about the program.



Workshop on 'Eco friendly initiatives'

Department of Commerce conducted a workshop on 'Eco friendly initiatives' on 24th March 2023 in seminar hall. The resource person Ajitha Murali demonstrated how to convert old jeans into handbags. They were given practice of **making useful handbags from discarded jeans**. Sufficient materials like jeans, scissors etc. were provided. The students **learned to make productive goods from the waste materials**. The torn jeans were used as raw material for making bags. Mrs. Ajitha Murali demonstrated the simplest method of making bags. The students found it very useful. Forty-three students participated in the program.





International conference on Green Economy Initiatives: Perspectives & Challenges

IQAC organised two-day program Multi-Disciplinary International conference on the topic – Green Economy Initiatives: Perspectives and Challenges in Hybrid Mode in collaboration with **Kerala State Higher Education Council, Thiruvananthapuram**. The conference was held on 28th and 29th March 2023. The conference titled “**GREEN ECONOMY INITIATIVES: PERSPECTIVES & CHALLENGES**” focuses on many key economic sectors because we see these sectors as driving the defining trends of the transition to a green economy, including increasing human well-being and social equity, and reducing environmental risks and ecological scarcities. The conference provided a platform to propagate ideas on green economy and invited researchers, academicians and industry experts to share their experiences on current and emerging trends in the area of green economy to bring about a balance of theoretical and practical implementation.



<https://snmcollege.ac.in/wp-content/uploads/2023/08/International-Conference-on-Green-Economy-Initiatives-Perspectives-and-Challenges-REPORT-2023.pdf>



NSS volunteers cleaned the college and nearby area under the guidance of NSS Program Officers. Cleaning activities like these play a crucial role in creating a clean and safe learning environment for students and **promoting a sense of responsibility towards the surroundings.**



Webinar on the Topic ‘How To Convert Organic Waste To Manure’

Department of Economics organized a **webinar on the topic ‘How to convert organic waste to manure’** on 31st May 2023 through online platform Google Meet. The resource person was Sri. K. Balan, Retired. Agricultural officer, Thooneri, Kozhikode District. He explained **different methods of converting biodegradable waste to organic manure.** He also demonstrated how to make manure from food waste and plant products. Six teachers and forty students participated in the program. The webinar was very effective in giving insight to students about organic manures. Participants cleared their doubts about the application of organic farming practices for different vegetables and plants.



Post Graduate Department of Economics
SNM COLLEGE, MALIANKARA

Organised a Webinar on the topic
How to Convert Organic Waste to Manure
As part of
Waste Abeyitha Program

Resource person: Sri. Balan K
Field Agricultural Officer, Theerthi, Kuttanada

Date: 25-6-2023
Time: 10 am
Platform: zoommeeting





Green Campus Activities 2021-22

World Cycling Day and World Environment Day- Quiz and Poster Designing Competition

Department of Economics conducted a **Quiz and Poster designing competition** on “**World Cycling Day and World Environment Day**”. The program was conducted online from 3rd to 6th June 2021. Hundred and four students participated in this program. **The program was conducted to inculcate environmental values among students.** The competitions conducted in connection with this program were Poster designing, slogan making and quiz which were conducted through the virtual platform **SNMC Virtual Campus**. A live quiz competition was conducted on June 5th in connection with the World Environment Day. More than 100 students participated in this quiz competition. E-certificates were given to all the quiz competition winners.



World Environment Day Celebrations- A Day for Nature

With great enthusiasm and dedication, various departments and clubs of our college came together to celebrate World Environment Day by conducting a wide range of activities aimed at promoting environmental awareness and sustainability.



The Department of Physics conducted **Leaf Art Competition** as part of **environment day celebrations** on 5th June 2021 through SNMC Virtual Platform. Nearly 15 Students from various departments participated in this program. **The program was conducted to create awareness on conservation of environment and ecosystem restoration among students.** The event created awareness among students about the needs and benefits of conservation of environment.



As part of celebrating **World Environment Day**, Department of Chemistry and NSS unit of SNM college planted **saplings**. The program was conducted on 5th June 2021. The purpose of celebrating this day **is to raise global awareness and action for environmental protection.** By planting more trees, it will contribute to global reforestation efforts, restoring lost forests, repairing damaged ecosystems and mitigating climate change. More than 70 members participated in the planting effort including teachers and students.



പ്രകൃതിക്കായി ഞെത്താരുമിച്ച നാൾ

ജനക പരിമിതികളിൽ പ്രകൃതി സംരക്ഷണത്തിനായി ഞെട്ടിച്ച നാൾ. ഹൃദയം നിറഞ്ഞു നിൽക്കുന്ന ഒരു കാര്യം. നമ്മുടെ ഭൂമിയിൽ നമ്മുടെ ഭാവനം പൂർണ്ണമായി നടപ്പിലാക്കണം. നമ്മുടെ ഭാവനം പൂർണ്ണമായി നടപ്പിലാക്കണം. നമ്മുടെ ഭാവനം പൂർണ്ണമായി നടപ്പിലാക്കണം.

എന്ന സമരം സി.എസ്.എസ്. സ്കൂൾ, മലിയാങ്കരയിൽ നടന്നു. ഇതിൽ പങ്കെടുത്തവർ പ്രകൃതി സംരക്ഷണത്തിന് പദ്ധതികൾ തയ്യാറാക്കി.

URK THE NATURE SO THAT WE
BETTER FUTURE."

IT DAY "Plant Saplings by
Families of Dept. of
Science and Research Department of
S.N.M. College, Maliankara



Collecting the fist sapling by College Principal Dr. T H Jitha

In connection with World **Environment Day**, Department of Malayalam **create awareness about environment** among school students. A recitation competition was conducted for students of LP, UP **classes through online mode**. This program created an understanding among students regarding the services provided by nature to man and the destruction faced by nature due to the activities of humans.



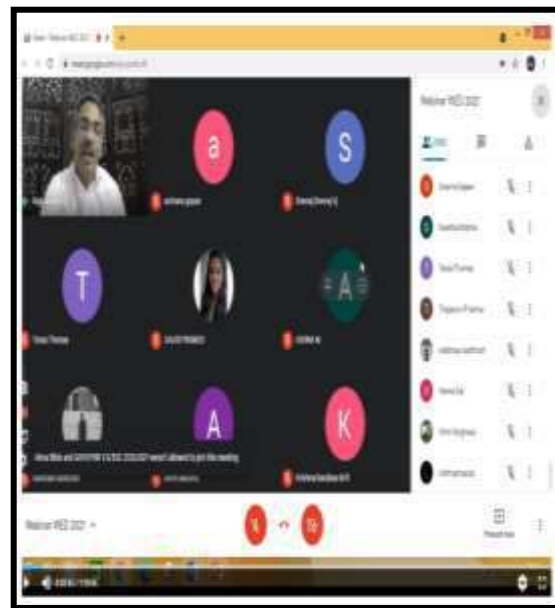
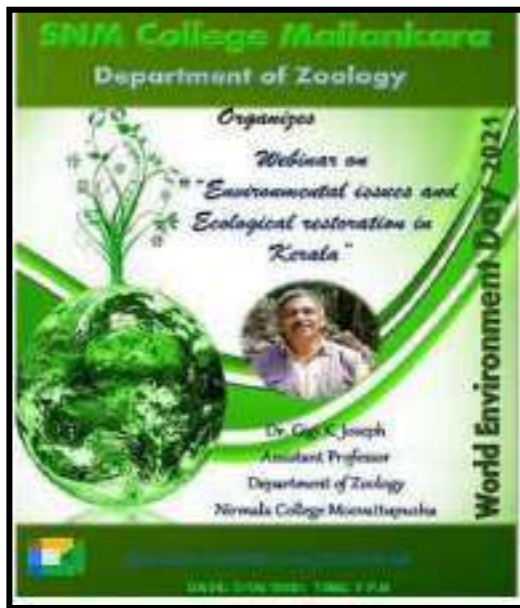
The MOOC Cell conducted an activity for all the departments in connection with **Environment Day celebration** on 5th June 2021. As part of the Massive Open Online Course on Organic Farming of MG University, around 700 first year students of our **college planted 5 different varieties of vegetable saplings in their homes**. The students of each department created a video compiling the photos of farming done by their students.



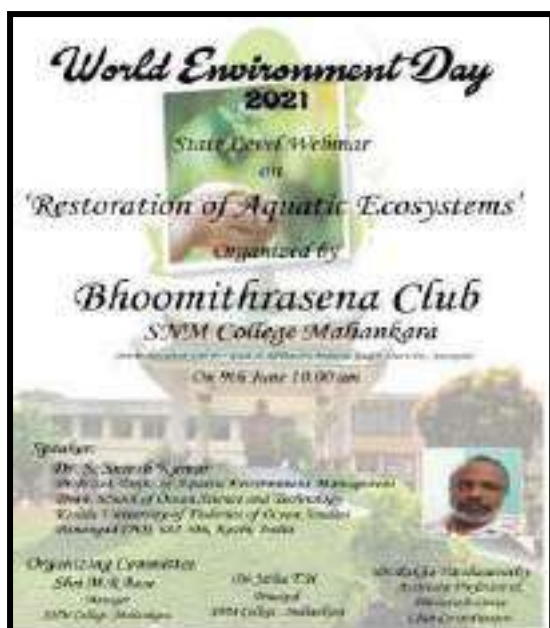
Department of Zoology organized a **Webinar on ‘Environmental Issues and Ecological Restoration’** based on the theme of this year’s **Environment Day commemoration** on 7th



June 2021. The program was conducted **to create awareness on the factors that degrades the ecosystem.** The platform used was Google meet. 100 participants joined the webinar. The class was handled by Dr. Giji K Joseph, Assistant Professor, Department of Zoology, Nirmala College Moovattupuzha. He explained various factors involved in the degradation of ecosystem, and how can we restore our planet. Students participated in the webinar till the end.



For commemorating **World Environment Day** the Bhoomithrasena Club conducted a **State Level Webinar** on 'Aquatic Ecosystem Restoration' on 9th June 2021. An informative talk was given by Dr. S. Suresh Kumar, Department of Aquatic Environment Management, KUFOS on the topic '**Aquatic Ecosystem Restoration**'. 65 students participated in this program. Ecosystem restoration means preventing, halting and reversing this damage – to go from exploiting nature to healing it. Only with healthy ecosystems can we enhance people's livelihoods, counteract climate change and stop the collapse of biodiversity.



Cleaning Drive: Class Rooms, College Office, Staff Rooms, Library

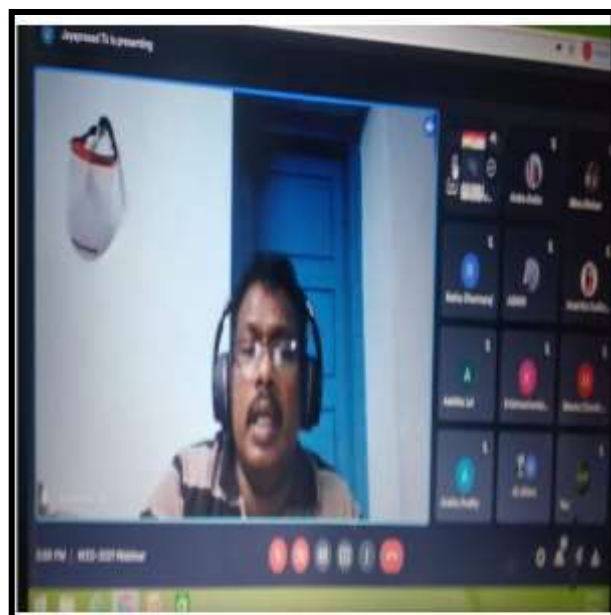
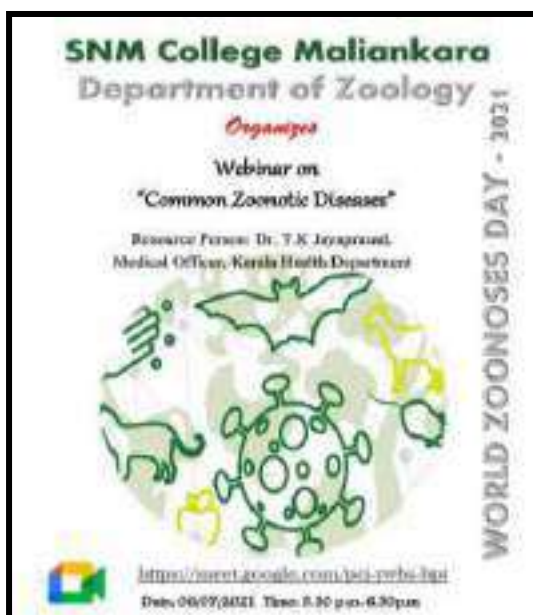
In order to ensure timely reopening **after** summer vacation and normal functioning of the college while **facing the threat of Covid pandemic situation**, NSS volunteers involved in the **cleaning class rooms, college office, staff room, library, laboratories and other areas of the college campus** where students and teachers may spend their time. The **cleaning drive** was conducted on 28th June 2021. **Volunteers made sanitizer** with the help of NSS programme officer Dr. V. C. Resmi. NSS volunteers prepared handmade posters under the leadership of NSS volunteer secretary Shahir Mohamed T M and Lidhiya Krishna M D which included covid pandemic related instructions to be strictly followed by the students and other stakeholders in the college campus.





World Zoonoses Day: Webinar

Department of Zoology organized a **webinar** in connection with **World Zoonoses day** on 6th July 2021 from 5.30 pm-6.30 pm. Dr. T. K. Jayaprasad, Medical officer in charge, Family Health Centre, Pudupariyaram, Palakad. The program helped **to understand various zoonotic diseases prevalent in Kerala.**



Disaster Management Awareness Program

The Red Cross society of the college gave **disaster management** insights to the staff and students of the college on 7th July 2021. Kerala is one of the most vulnerable states during July and August months due to monsoon season. It is very important to **inform the staff and**



students about information related to how to manage ourselves and our family during any disasters. Disaster management is the organization and management of resources and responsibilities for dealing with all humanitarian aspects of emergencies, in particular preparedness, response and recovery in order to lessen the impact of disasters. The Red Cross volunteers took initiative to give awareness for all the staff and students of our college by sharing a YouTube video of Sri. Muralee Thummarukudy, Chief of Disaster Risk Reduction in the UN Environment Program



International Day for the Conservation of Mangrove Ecosystem -Painting Competition

Mangroves are rare, spectacular and prolific ecosystems on the boundary between land and sea. These extra ordinary ecosystems contribute to the wellbeing, food security and protection of coastal communities worldwide. Department of Botany conducted a **painting competition** on the theme ‘Need of Conservation of Mangroves’ in connection with International Day for the Conservation of Mangroves. The program was held on 26th July 2021. The program was conducted with the aim of **promoting nature care activities among students.**



International Tiger Day: Webinar

For observing **International Tiger Day** the Bhoomithrasena Club conducted a **webinar on the topic ‘Their survival is in our hands’** on 6th August 2021. The speaker was Dr. Sapna Jacob, Assistant Professor, Department of Zoology, Payyanur College, Payyannur. She pointed out that several countries are taking measures to curb poaching, illegal wildlife trade, human-wildlife conflict, and habitat loss the tiger population in these countries has shown some growth. Not just that, cutting of trees also contributes significantly to habitat loss, thereby leading to the reduction in the number of tigers. 50 participants took part in the program. The program **created awareness among the students regarding steps and actions to be taken to protect tigers.**





Webinar on Energy Conservation: KSEB: Soura Project

Department of Physics and **Energy Conservation Club Student Chapter**, conducted an **online seminar based on KSEB: Soura Project** on 1st September 2021. The program aimed at **inculcating energy conservation habits and to create awareness about new energy technologies among students**. Mr. Shafeeq A, Assistant Engineer, KSEB, Palakkad was the resource person. He talked about KSEB Soura project, its perspectives and challenges. He discussed that in this subsidy initiative, there were three hybrid models introduced by KSEB which is based on the average electricity consumption of the consumers and it aims to give financial support to the weaker section thereby making them green energy partner of the state. 35 students participated in the webinar.



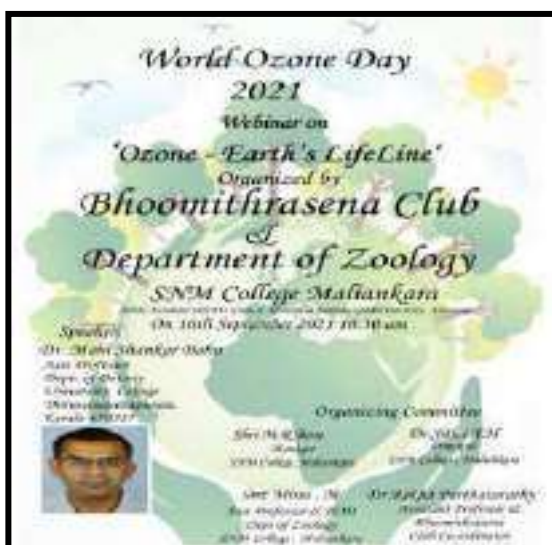
Teacher's Day – Distribution of Paper Pen with Seed as Token of Love

As a part of observing Teacher's Day, NSS volunteers gifted **handmade paper pen to their teachers** on 5th September 2021. The paper pens were made with newspaper. While gifting this paper pen, NSS volunteers also attached a **seed within the pen**. **Intention of this program was to give a message of avoiding plastic as pens made of plastic are harmful for the nature**. Seeds distributed along with paper pen are supposed to be planted by the teachers for ensuring the availability of tree warriors to fight against pollution.



World Ozone Day Celebration

For commemorating Ozone Day, Bhoomithrasena Club and Department of Zoology jointly conducted a webinar on the topic “**Ozone –Earth’s Life Line**” on 16th September 2021. The speaker was Dr. Manishankar Babu, Assistant Professor Department of Botany, University College, Thiruvananthapuram. He spoke about ozone depletion, ozone hole and other negative effects and consequences of ozone layer depletion, greenhouse effect, global warming and climatic change. 80 participants took part in this program. The webinar helped to spread awareness among the audience about the significance of ozone layer to the environment.





World Ozone Day Celebration: Poster making competition

World Ozone Day is celebrated to **spread awareness among people about the depletion of Ozone Layer** and find possible solutions to preserve it. Department of Chemistry on 16th September 2021 organized an **Interdepartmental Poster Making Competition** through Moodle Platform. Theme for this competition was “Keeping Us, Our Food and Vaccines Cool”. Students posted the posters designed by them through SNMC Virtual platform. By preparing posters students became aware of the importance of conservation of Ozone layer and the need for taking action immediately for its protection.



Gandhi Jayanthi Celebration: Campus Cleaning Drive

NSS Unit observed **Gandhi Jayanthi** on 2nd October 2021 by preparing posters to propagate Gandhiji's ideas among the youth and public. Volunteers also **cleaned college campus**. Those students who participated in the poster making work and cleaning work got good understanding of the value of their work. They became familiar with the ideologies of Father of our Nation.



Wildlife Week Celebrations: Photography and Painting Contest

As a part of **Wildlife Week Celebrations**, the Department of Zoology organized **Photography and painting** contest on 7th and 8th October 2021. The theme for photography competition was **Birds in Your Backyard**. This activity helped in creating awareness about common birds seen in our premises among students. The painting contest theme was Wild and Water. **This program helped to evoke student's creativity and observation skill.**

**S.N.M. COLLEGE MALIANKARA
DEPARTMENT OF ZOOLOGY
NATIONAL WILDLIFE WEEK CELEBRATION
OCTOBER 2-8, 2021**

7 OCT
Photography contest
Are you a good photographer? It's time to show your talent.
Theme : Birds in your backyard 

8 OCT
Painting contest
Wild is your canvas,!! Paint it...!!!
Theme : Wild and Water 

Instructions:
Photography – Mobile photography are accepted.
Photos are send as documents on or before 7pm : 7-10-21
Painting – Scanned Images are send on or before 7pm : 8-10-21
Entries are send to 9784425409
E-certificates are provided for the winners.





World Wetlands Day Celebration: Webinar on “Wetlands Action for People and Nature”

The department of Botany organized a **Webinar on “Wetlands Action for People and Nature”** on 5th February, 2022. The resource person was Dr. V.P. Syllas, Assistant Professor, School of Environmental Sciences, Mahatma Gandhi University, Kottayam. **World Wetlands Day** is celebrated each year on 2nd February to **raise awareness about wetlands**. Wetlands are critically important ecosystems which contribute to biodiversity, climate mitigation and adaptation, freshwater availability and more. We must raise regional, national and global awareness about wetlands in order to reverse their rapid loss and encourage actions to conserve and restore them. This year, ‘Wetlands Action for People and Nature’ is the theme highlighting the importance of actions to ensure the conservation and sustainable use of wetlands for humans and planetary health. The program was conducted through Google meet. All faculty members joined with a total participation of 100 students. A special reference was given to Kuttanad wetlands. Mr. Syllas has emphatically talked about the current world scenario of wetlands, India and Kerala. He has also described the significance of Kuttanad wetland system and its divergent flora and fauna. The students were really keen to hear such a kind of vital topic from very experienced resource person.

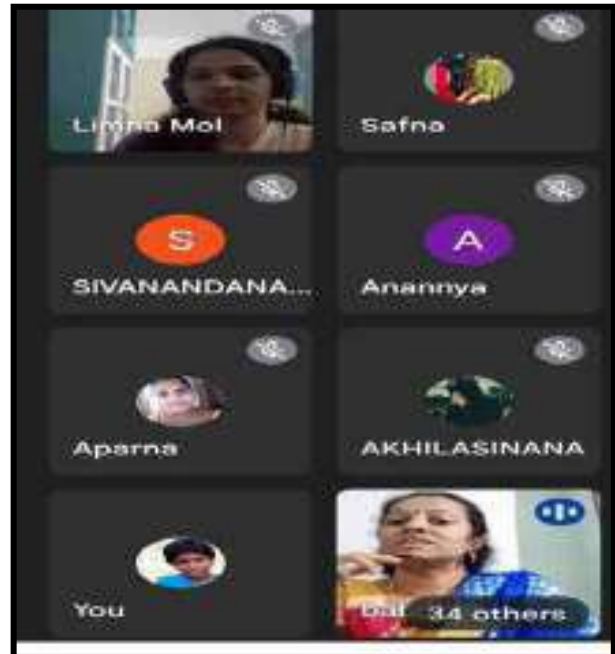
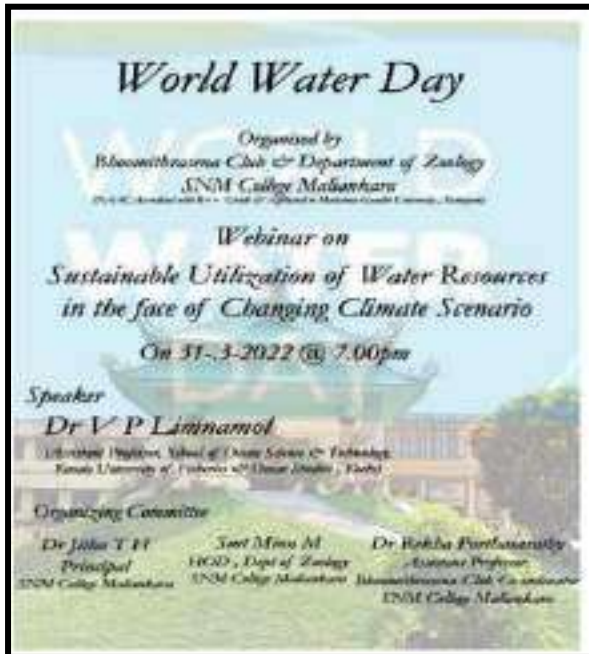


World Water Day : Webinar

Bhoomithrasena Club and Department of Zoology conducted a **webinar** to observe World Water Day on 31st March 2022. A talk on the topic “**Sustainable Utilization of Water**”



Resources in the face of changing climate scenario” was given by Dr. Limnamol V. P. Assistant Professor, School of Ocean Science & Technology, Kerala University of Fisheries & Ocean Studies, Kochi. Dr. Limna gave a deep explanation about how freshwater resources are influenced by many non-climatic drivers such as changes in the patterns of population, food consumption and production of food and other products. 50 participants joined the program.





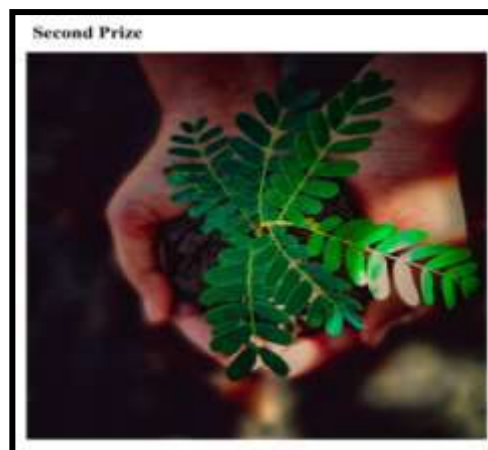
Green Campus Activities 2020-21

Environment Day Celebrations

Environment day was celebrated by NSS unit in a very simple manner to **create an understanding about the importance of plants in society** on 5th June 2020. As part of environment day some **plant saplings** were planted in the college campus by NSS volunteers. A photography competition was also conducted on the topic “Nammude Haritha Naddu”. The competition was conducted for all students of our college. Many students were interested on the competition and also many entries had come. The competition was conducted through SNM virtual campus. 100 NSS volunteers participated in this program.



Bhoomithrasena Club organized a **photography competition** on 5th June 2020 for students of various departments of our college through **Moodle platform** in connection with Environment Day. The program was sponsored by The **Directorate of Environment and Climate Change, Govt. of Kerala**. The celebration of this day provides us with an opportunity to **broaden our understanding on responsible conduct by individuals, enterprises, and communities** in preserving and enhancing the environment. Best three entries were awarded First Prize was awarded to Athul C. of Ist M.sc Zoology.



Environment Day Celebration- Workshop on Making Paper Bags

The Department of Physics conducted a **workshop on making paper bags** on 8th July 2020. It was organized **to train the students in making paper bags and realize their importance in economic empowerment and in environmental protection**. Mr. Sunil Kumar C. P., Assistant Professor, Department of Physics was the program co-ordinator. Efficient students were selected in this session as trainers. They divided the target students into groups and were taught paper bag making. The technical session on paper bag making was very effective in creating awareness among students on using paper bags as part of environmental protection. Students actively participated in the session. The session developed an entrepreneurial mindset among the students.

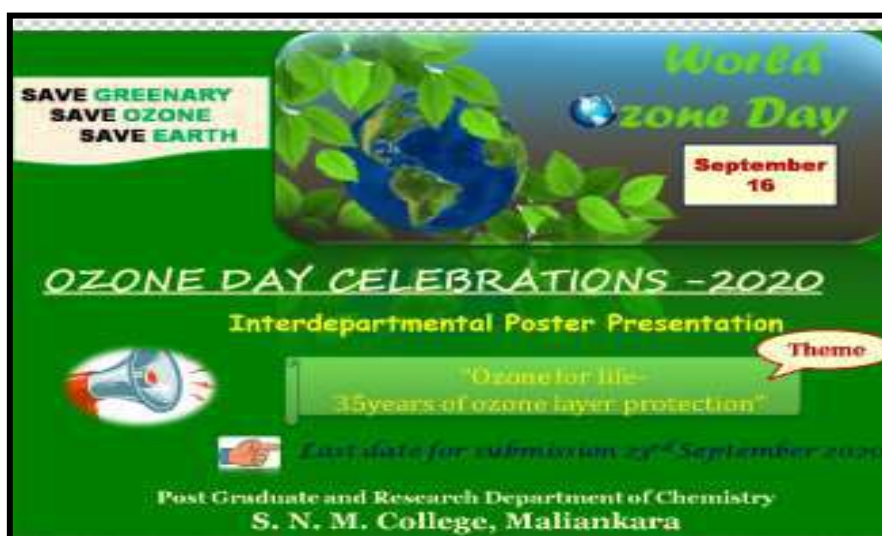




World Ozone Day Celebrations

Various cells and departments collaborated together to celebrate Ozone Day by organizing a variety of activities, each contributing to the awareness and appreciation of global efforts to protect the ozone layer. ***Interdepartmental Poster Presentation Competition, Poster Campaign and Slogan Writing Competition*** were the some of the programs conducted.

On 16th September 2020, Department of Chemistry conducted an **Interdepartmental Poster Presentation Competition** in connection with **Ozone Day Celebrations in virtual mode**. Theme for the program was “Ozone for life-35 years of ozone layer protection”. Students submitted posters for the competition through SNMC Virtual platform. By preparing the poster **students became aware of the efforts taken around the world for protection of ozone layer.**



World Ozone Day was celebrated by the volunteers of NSS unit on 16th September 2020 by conducting **Poster Campaign**. A **poster for public awareness** was made. And the poster was published on several social media platforms. The program was conducted to **develop a sense of social and environment responsibility among students**. The poster contained data on the dangerous effects of ozone layer depletion and the care that should be given for our mother



Earth to sustain from the dangerous effects . The poster includes the need for protecting the nature and the effects of ozone layer depletion.



In tune with the **Ozone Day Celebration**, Bhoomithrasena Club and Department of Zoology organized **Slogan Writing Competition**. The program was sponsored by The **Directorate of Environment and Climate Change, Govt. of Kerala**. It was conducted on 18th September 2020. Selected UG and PG students from the various departments in the college participated in this inter-departmental competition. The program was organised to **raise awareness about the importance of ozone layer protection** among students and make them aware about the problems which can be caused by depletion of ozone layer.

In tune with the Ozone Day Celebration 2020-21, we announce a Slogan competition. The program is sponsored by The Directorate of Environment and Climate Change, Govt. of Kerala, and organized by Bhoomithrasena Club & Department of Zoology of SNM College, Maliankara. It is scheduled to be held on 18th September from 8.30am to 12.30pm. All UG and PG students across the various Departments of the College are eligible to participate in this inter-departmental competition. Any 3 Slogans may be mailed to snmcollege@rediffmail.com. The best will be selected and awarded.

With warm regards,

Dr. Reekha Parthasarathy
Co-ordinator

Dr. R.G. Bhuvaneshwary
Principal

1. Save ozone to sustain survival – FIRST POSITION
(PARVATHY)

2. Save the ozone umbrella to heal the mother earth
– SECOND POSITION (SEEDHAL)



Wild Life Week Celebration- National Webinar

As a part of **Wild Life Week Celebrations**, the department of Zoology organized a four-day **National Webinar** from 5th October 2020 to 8th October 2020 through Google meet platform. 88 students participated in the Webinar. The program was conducted with the intention of **increasing awareness of world's wildlife**. First session started on 5th October 2020 at 11.00 am. The session was handled by Dr. AmithaBachan K. H., Assistant Professor of Botany, MES College, Kodungalloor. The topic for the session was **“Hornbills the Guardians of Future Earth”**. He explained the importance of Hornbills in the dispersal of seeds and its role in the existence of earth and its life. Session 2 was handled by Dr. Maina Umaiban Assistant Professor of Malayalam, MES Mampad College Malappuram. She delivered a wonderful speech on her childhood experience in forest. Session 3 was handled by Dr K. A. Jayaraj Assistant Professor, Department of Ocean Studies and Marine Biology Pondicherry University. He delivered a seminar on the Marine Benthic Diversity. The last session of the Webinar was handled by Dr. M. J. Mathew, Assistant Professor and Head, Department of Zoology, Sacred Heart College, Thevara. He delivered a lecture on spider diversity of Western Ghats.

Programme Schedule		
Webinar series from 05/10/2020 - 08/10/2020		
SESSION I - 05/10/2020	11.00 am	Hornbills: "The Guardians of our Future Earth"
SESSION II - 06/10/2020	1.00 pm	Childhood in forest
SESSION III - 07/10/2020	3.30 pm	Marine Benthic Diversity
SESSION IV - 08/10/2020	11.00 am	Spider diversity of Western Ghats

National Webinar- Floristic Diversity and Ethnobotany of Himalayas and Western Ghats

A **National Webinar** on **Floristic Diversity and Ethnobotany of Himalayas and Western Ghats** was jointly organized by the Department of Botany, SNM College, Maliankara and



Nethaji Nagar Day College, Kolkata on 16th October 2020. 90 students participated in the program. **Participants got an opportunity to interact and share their thoughts on biodiversity in two entirely different ecosystems of India.** The webinar had two technical sessions and was organized through the Google Meet Platform. The first session was by Dr Abhaya Prasad Das. The topic for the session was “Ethnobotany: The Traditional Knowledge Base of Human Society: Special Reference to the Eastern Ghats”. The session was very informative and gave an insight into the importance of traditional knowledge. He shared his experience from his own research endeavours to study ethnobotany. It was a knowledgeable session and the speaker had a great command over the subjects. He stressed the need to protect nature and investigate nature for healing ourselves and the importance of holding strong to our roots. The second session was handled by Dr P. Sujanalpal, Senior Scientist, Kerala Forest Research Institute, Pechi, Kerala. The session was on the topic “Western Ghats: The evergreen world of Flowering Plants”. The session by Dr. Sujanalpal gave an overview on Western Ghats' floristic diversity. Throughout the session, he shared beautiful pictures of the plant diversity of the Western Ghats.

National Webinar
on
**Floristic Diversity and Ethnobotany
of Himalayas and Western Ghats**

Organized by
SNM College, Maliankara, Kerala
in association with
Nethaji Nagar Day College, Kolkata, W. Bengal

on
16.10.2020

**Our
Resource Persons**

Prof. (Dr.) Abhaya Prasad Das
Adjunct Professor, Department of Botany,
Biju Patnaik University, Parangal,
Kannur District

Dr. A. Sujanalpal, PhD
Senior Scientist
Kerala Forest Research Institute,
Pechi, Kerala

Department of Botany of SNM College, Maliankara and Department of Botany of Nethaji Nagar Day College, Kolkata is jointly organizing a National Webinar on Floristic Diversity and Ethnobotany of Himalayas and Western Ghats. We are glad to invite faculty, research scholars and students to join this webinar and make it a fruitful session.

Programme Co-ordinators
Dr. Bhumika Pradhan (SNMCO),
Dr. Sushil Kumar (NNDCC)

Programme Co-ordinators of SNMCO & NNDCC
Dr. Raja R.C. (Assistant Professor)
Ms. Asha A. (Assistant Professor)

Dr. Rajanikanth Das, Head of the Department
Ms. Deepa Prasad (Ad. Lecturer) SNM College, Maliankara
Dr. Lakshmi Hegde (Prof. Emerita) SNM College, Maliankara
Ms. Binodini Chatterjee (Senior Lecturer) Nethaji Nagar Day College, Kolkata

Registration Link: <https://zoom.us/j/1174700018?pwd=1RoxeW1kZU9lbnZkd0p1eU5kdDZkdz09>

Programme Schedule

9:30 am : Registration
9:45 am : Prayer
10:00 am : Inaugural Session
Welcome address : Dr. Bhumika Pradhan (Assistant Professor, NNDCC)
Inauguration : Prof. Abhaya Prasad Das (Adjunct Professor, Biju Patnaik University, Parangal, Arunachal Pradesh)
Principals' Message : Dr. Sonali Banerjee Jadh (NNDCC)
: Dr. M.G. Bhuvaneshwari (SNMCO)

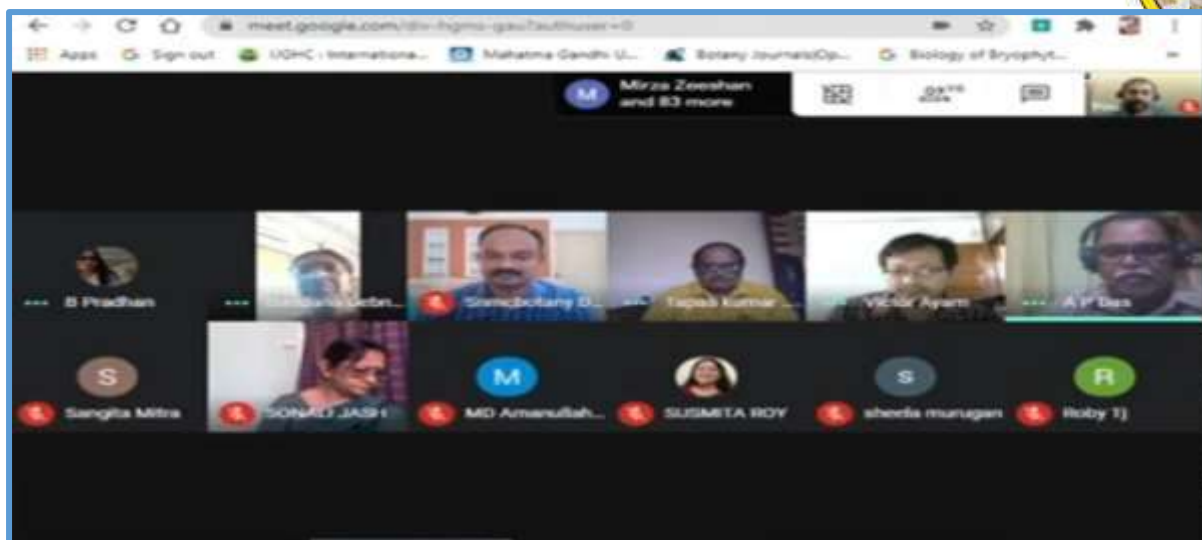
Technical Session I - Ethnobotany: The Traditional Knowledge Base of Human Society: Special reference to Eastern Himalayas
10:15 to 11:40 am
Resource Person: Prof. Abhaya Prasad Das

Technical Session II - Western Ghats: The Evergreen World of Flowering Plants
11:50 am to 1:00 pm
Resource Person: Dr. A. Sujanalpal

Vote of Thanks : Ms. Asha, A. (Assistant Professor, SNMCO)

Patrons of SNM College, Maliankara
Mr. B. Rajan, Mr. Rajanikanth T.S., Mr. Raja R.C.,
Principal, Head of Dept., Assistant Professor

Patrons of NNDCC College, Kolkata
Dr. Abhishek Chatterjee, Dr. Anupam Chatterjee,
Principal, Head of Dept., Assistant Professor



Talk On Organic Farming and Organic Manure Making

Department of Physics conducted an **awareness session** on “**Organic Farming And Organic Manure Making**” for students of the department on 11th November 2020. Thirty students participated in the program. **The program aimed at promoting interest in organic farming among students.** Awareness on organic farming and organic manure making help the students to develop a positive attitude towards organic farming and also it would benefit the society in a significant manner. The organic farming and organic manure making activities were conducted successfully by the students and they were highly benefitted by the activities. The event created awareness among students about the needs and benefits of organic farming. Students commented that the effort to take up organic farming is appreciable because the products that they get out of it are always healthy and is of high-quality.



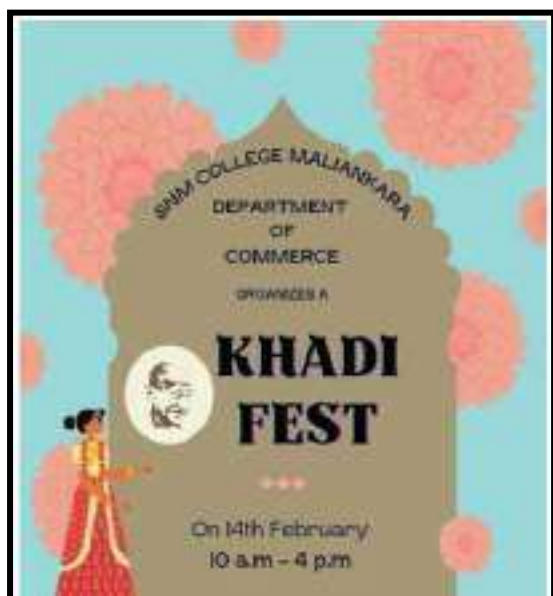
Poster Designing Competition

Energy Conservation Club Student Chapter and Nature Club jointly organized an **Online Poster Designing Competition** on 15th December 2020 based on the theme “**Sustainable development with renewable energy**”. 14 students participated in the program. The program was conducted to **inculcate energy conservation habits in students** and to nurture the soft skills like creative designing, content writing in students.



Khadi Fest: An Environment Friendly Movement

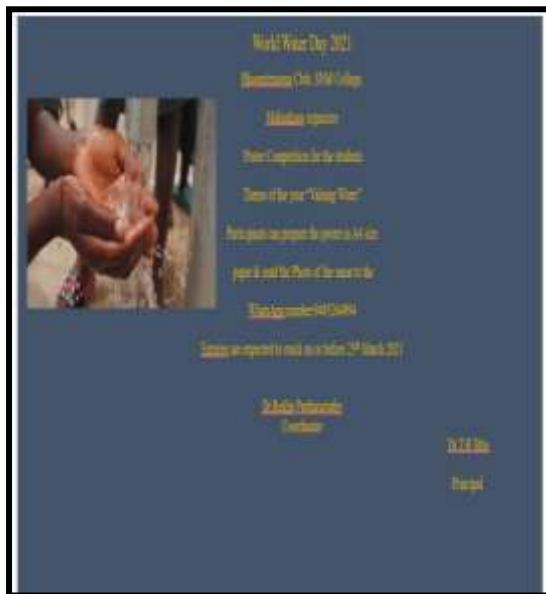
Department of Commerce conducted **Khadi Fest** on 14th February 2021. Khadi products from North Paravur and Kodungallur were exhibited. Khadi is a sustainably created fabric causing less harm to nature. By using khadi, we can be more environmentally friendly. The event was inaugurated by Principal Dr. T. H. Jitha. The teachers and students of various departments purchased the products and clothes. Special discounts and rebates were provided. The products were of affordable price. This encouraged the students to buy more of the products. Khadi dress materials like sarees, churidhars, blanket, pillows, organic skin care products and natural honey were the main attractions of the exhibition.





World Water Day -Poster Competition

Bhoomitrasena Club organized a **Poster Competition** to commemorate **World Water Day** on 22nd March 2021. The World Water Day celebrates water and **raises awareness of the global water crisis**. The core focus of the observance is to support the achievement of Sustainable Development Goal (SDG) 6: water and sanitation for all by 2030. The theme of World Water Day 2021 is valuing water. Students from various departments submitted their entries for the competition. First Prize was by Sajay A. U. of IIIrd B. A. English.



World Forest Day- Essay Writing and Placard Making Competition

On **World Forest Day**, NSS volunteers conducted an **Essay Writing and Placard Making Competition** for the NSS volunteers. The topic for both competitions was "The Importance of Saving Forest Areas". The competitions were conducted on 21st March 2021. The program was conducted to **raise awareness about the importance of forests and trees for the environment, as well as for the well-being of humanity**.



Thullivellam Kilikalkkaayi (A Drop of Water to Birds)

NSS Unit organized a program titled "**Thullivellam Kilikalkkaayi**" on 22nd March 2021. The primary objective of this initiative was to **create awareness about the importance of providing water sources for birds during the scorching summer months**. The event aimed to promote compassion towards our feathered friends and encourage community to actively participate in preserving the environment. NSS program officers and other volunteers participated in the drive. The program commenced with an awareness session where the participants were educated about the significance of providing water sources for birds during the summer months. The session highlighted the challenges faced by birds in finding water and the detrimental effects it can have on their survival. Following the awareness session, the volunteers and program officers engaged in the installation of bird baths in strategic locations around the college campus. These bird baths were designed to provide a safe and accessible water source for birds.





Green Campus Activities 2019-20

Campus Cleaning Program

On 11th June 2019 a concerted effort towards maintaining a clean and plastic-free campus was carried out by a group of enthusiastic NSS volunteers at SNM College. The primary objective of a campus cleaning program is **to ensure that the campus premises are clean, tidy, and safe** for students, faculty, staff, and visitors. The initiative aimed to raise awareness about the harmful effects of plastic pollution while actively contributing to a cleaner and greener campus. A "Green Campus" initiative was undertaken under the dedicated guidance of NSS Programme Officer Mr. C. P. Sunil Kumar.

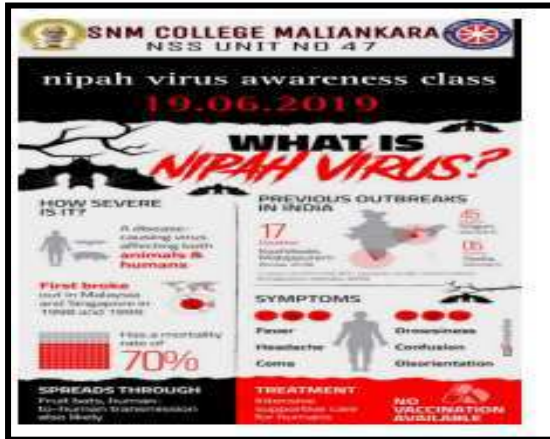


Seminar on Nipah Virus Awareness

The NSS Unit organized an informative **Nipah Virus awareness class** on the 19th June 2019. The session was conducted by Dr. Sobha, Senior Supt., Govt PHC Moothakunnam an expert in the field. It was aimed to educate students and staff members about the Nipah virus, its potential dangers, and preventive measures. The event began with an introduction by the NSS coordinator highlighting the importance of staying informed about emerging health threats and the role of NSS in promoting awareness within the community. Dr. Sobha delivered an insightful presentation on the Nipah virus. Dr. Sobha's presentation was informative and



well-structured. She covered various aspects related to the Nipah virus, including its origin, transmission, symptoms and preventive measures. During the session, she explained that the **Nipah virus is a zoonotic virus that can be transmitted from animals to humans**. She discussed the initial outbreak in Malaysia and subsequent occurrences in India, highlighting the severity of the disease and its potential to rapidly spread.



World Population Day celebration- A Rally to the Adopted Village

The NSS Unit organized a World Population Day celebration on 11th July 2019 to **raise awareness about the challenges of population growth and promote sustainable development**. It was fascinating to see the NSS volunteers lined up on map model of **India**. Through the **rally and the map of India activity**, the event engaged participants and fostered a better understanding of the challenges associated with population growth.





'Mazha Malayalam'- Seminar about Nature

Malayalam department on 26th July 2019 conducted '**Mazha Malayalam**'. This program was inaugurated by Principal Dr. C. M. Sreejit. Mrs. Sreeja P. R., head of the department, presided over the meeting. Students and teachers shared songs, poems, stories and intellectual emotional experiences about rain. The **program created consciousness about our surroundings and nature** among participants.



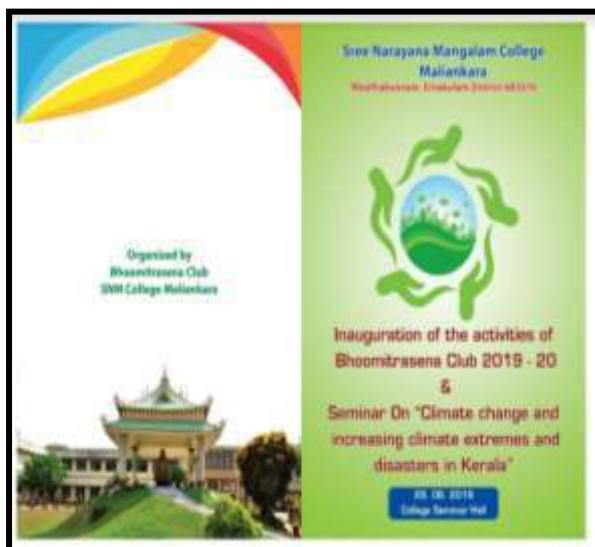
Talk on 'Man and Nature'

Department of Botany conducted a **talk entitled 'Man and Nature'** on 5th August 2019 at the Seminar Hall. Ninety-four participants were there to attend the program. Resource person for the talk was Dr. C. N. Sunil, Retired Associate Professor, Department of Botany, SNM College, Maliankara. The main objective of the program was to **impart awareness about the conflict between man and nature**. Dr. C. N. Sunil delivered a valuable and all-inclusive talk on the topic 'Man and Nature' related with his expedition. He detailed a description about various types of forests present in Kerala. He also gave a description of several animals and birds that he encountered during his journeys. Throughout the presentation he used images taken by him on his expeditions. Dr. C. N. Sunil has given very valuable information regarding the conflict between man and nature based on his first-hand experience. The students were made more **aware about the conflict between man and nature and they also realized the importance of the conservation of nature**.



Talk on Climate Change

Bhoomithrasena Club organised a seminar on 29th August 2019 in the college seminar hall. An **informative talk on 'Climate Change and Increasing Climate Extremes and Disasters in Kerala'** was delivered by Dr. Abhilash S., Department of Atmospheric Sciences, CUSAT. Dr. Abhilash pointed out that climate change is a global challenge that does not respect national borders, he also said that the frequency and intensity of extreme weather events in India appears to be going up, as projected by various scientific assessments on climate change. But it may not be right to connect every such event with climate change. **The devastation caused by global warming and its causative agents by blaming imagined forest loss seem to be pushing a corporate agenda.** When the rains that you normally get in two months of monsoon pour down in one or two days what occurs is flood. Over the years, Kerala's soil has lost its basic texture and water retention capacity leading to soil piping phenomenon which occurs when water erodes beneath the surface of the ground creating an underground tunnel known as soil pipe. These tunnels collapse leading to more erosion.



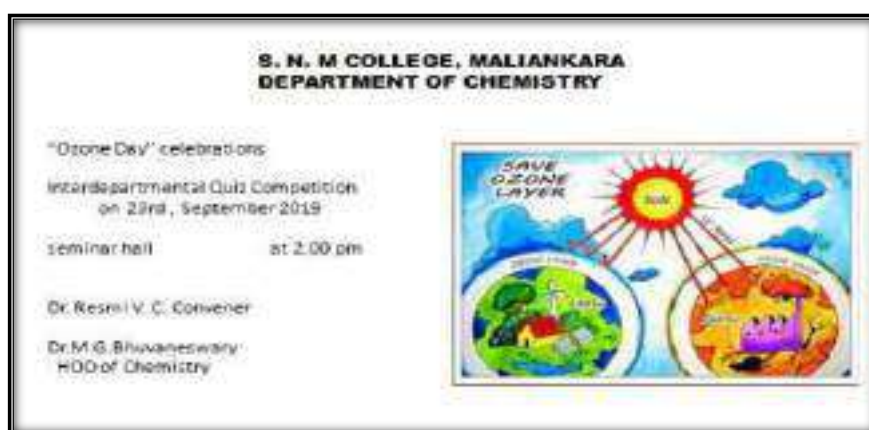
World Ozone Day celebration-Tree sapling, Interdepartmental Quiz and Poster Competition

NSS Unit celebrated **World Ozone Day** on 16th September 2019. The objective of the Ozone Day celebration was **to raise awareness about the importance of ozone protection and to encourage a sense of social and environmental responsibility** among the participants. The event saw active participation from hundreds of NSS volunteers who came together to raise awareness about the importance of ozone layer conservation and promote environmental sustainability. A significant highlight of the event was the distribution of tree seedlings.





Interdepartmental quiz competition “Ozone” was organized by Department of Chemistry as a part of ozone day celebration. The program was conducted on 23rd September 2019 at seminar hall. Students conducted the program successfully with the support of teachers. The Quiz masters were Sreelakshmi A. R. (IInd MSc Chemistry) and Apsara V. H. (Ist MSc. Chemistry). Department of Physics secured first prize in the competition. The event helped **to raise awareness among the students about the importance of preserving the ozone layer and the environment in general.**



As part of commemorating **Ozone Day** Bhoomithrasena club conducted a **poster competition** on the topic **“Who will stitch my Umbrella?”** 17 students participated in the competition out of which best three entries were awarded. Prize distribution was done on Arts day inauguration by the Principal. First Prize was secured by Sajay A. U. of IInd B.A English.





Seaweed Exhibition and Workshop

Department of Botany organized a one-day **Seaweed Exhibition and Workshop** on 9th October 2019 in the Botany department block. There were 38 students and 3 teachers from the high schools of Njarakkal village and Paravur taluk. The workshop was carried out in three technical sessions. The main objective of the program was to **create awareness about Seaweeds** and hands on training session to identify algae using bright field microscope. All the participants were visited the Algal Culture Lab of the department. All the students excitedly observed the specimens collected from the field through the Phase contrast microscope. The research scholars delivered a brief lecture on various algal culture techniques. The school students were able to observe different microscopic and macroscopic algae. They were also given insight into various algal culture techniques and handling of bright field microscope.



Nature Study Tour to 'Mangalavanam'

Department of Malayalam conducted a **nature study tour to 'Mangalavanam'** on 15th October 2019. The third year students went on the environmental study trip. Such trips help **to create awareness about nature and its significance among students.** The teachers of the department, Viji M P, Sangeetha Tiruval and Shubin Das accompanied the students. Such trips help in reinforcing the importance of nature among students and help them to reflect on

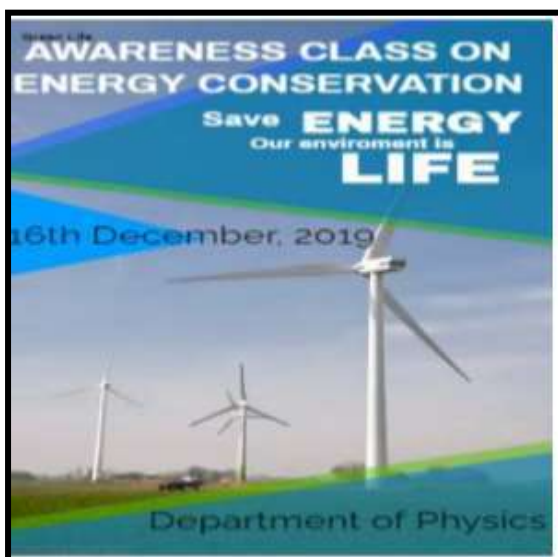


the destructions being pelted on nature by anthropogenic activities. Such visits also help in creating a nature friendly lifestyle among students.



Awareness Class On Energy Conservation

Department of Physics organized an **awareness class on energy conservation** for students on 16th December 2019 at multimedia room. Class was taken by Mr. Biju. P, Assistant Engineer, KSEB, Moothakunnam. The program was conducted to **discuss about the importance of energy conservation in modern world** and the various simple ways of achieving energy conservation and to discuss about the precautionary and safety measures in handling electricity. The topics discussed in the class was on how to conserve energy in an efficient way, safety measures that one should know while handling electricity, simple ways to reduce electricity bills. 27 students were benefited by the program.





Seminar On 'Vegetable Cultivation'

Department of Economics organized an awareness class on '**Vegetable cultivation**' on 4th February 2020 at the Seminar Hall. Fifty-nine students took part in the program. The class was delivered by Smt. Neethu, Krishi Officer, Vadakkekkara Panchayat. The objective of the programme was to **create an interest in vegetable cultivation among students**. It was conducted as part of village adoption programme. The program imparted the knowledge about the different farming methods and evoked an interest in farming among students. The students understood the hazardous effect of imported vegetables and realized the importance of cultivation in our kitchen garden.



Workshop -Paper and Cloth Bag Making

Department of Chemistry organized a **workshop on paper and cloth bag making** on 20th February 2020. There were twenty-six participants to attend the workshop. The main objective of the program was to **reduce use of plastic carry bags and encourage use of environmental friendly alternatives in the campus** for the protection of environment. The experts trained the students to make the paper and cloth bags. The event facilitated to deliver awareness among the students about the harmful effects of plastics and benefit of eco-friendly products.



National Seminar on “Kerala Flooding

Bhoomithrasena Club organized a National Seminar on “**Kerala Flooding 2019: Why Is Kerala Flooding Again?**” on 29th and 30th January 2020. The seminar was sponsored by **Directorate of Environment and Climate Change**. The program was intended to **create awareness and knowledge to the next generation for preserving and protecting our natural resources and environment**. The program was inaugurated by Dr. Gopalakrishnan M. B., Registrar, Sree Sankaracharya University of Sanskrit, Kalady. The total participants for the program were 336. Dr. K. R. Renjith, Scientist, Centre for Water Resources Development and Management, Calicut delivered a talk on ‘Green House Gases and Climate Change’. The informative talk provided insights into the clear scientific view, on the current state of climate change and its potential environmental and socio-economic consequences, notably the risk of climate change caused by human activities. The resource person also pointed out the incidence which took place in the Kerala flood in Kavalapara during 2019. In the afternoon session, Dr. V. P. Limnamol, Assistant Professor, School of Ocean Science and Technology, Kerala University of Fisheries and Ocean Studies, Kochi, explained about the adaptation to Climatic Change Impacts. She explained the intricacies of climate change and its impacts on our environment, our economies. Dr. Shaiju P., Assistant Professor, Centre for Science & Society, Cochin University of Science and Technology delivered a talk on “Flood Prevention, Protection and Mitigation”. He stressed upon mitigation measures, preparedness, response and relief, recovery (Reconstruction and Rehabilitation), Pre-disaster planning. Dr.



K. H. Amitha Bachan, Assistant Professor and Research guide, Department of Botany, MES Asmabi College Kodugallur focused on the topic “Ecology, Climate Change and Flood in Kerala Context”, he pointed out how the natural resources and the three major important Ramsar sites in Kerala and the wet lands are being degraded by tourist and human interferences which is a major concern today.



Workshop On LED Bulb Making

Workshop on LED bulb making was conducted by Department of Physics in association with NSS unit on 26th February 2020 at B.Sc. Physics Lab at 10:00 am. Mr. Sunil Kumar C. P., Assistant Professor, Department of Physics was the program coordinator. The resource person, Mr. Sabir, Engineer, KSEB, Malappuram handled the training session. Students and faculties were the participants. Students were given training on the manufacture and repair of LED bulbs. All the participants learnt the use of the electronic tools like soldering iron, soldering wax, soldering wire, Diode, Resistance, Capacitor, PCB. They made more than 50 low-cost seven watt LED bulbs and these LED bulbs were distributed among staff and other local people free of cost. There were 35 participants. The technical session on LED bulb manufacturing and repairing was very **effective in creating awareness on using LED bulbs as part of energy conservation**. The resource person explained various electronic and electrical components, materials, and their specific properties and usages. He also explained the special safety and handling precautions to be taken during LED luminary testing. The theoretical session and the hands on training session under the resource person were very useful for the students.



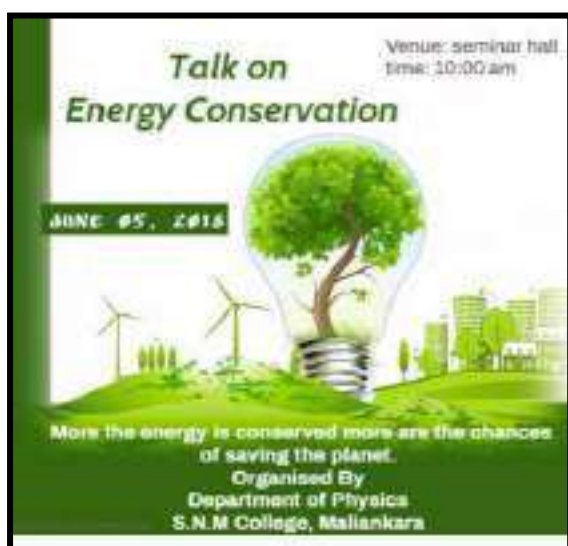


Green Campus Activities 2018-19

World Environment Day Celebrations

World Environment Day is annually celebrated for inspiring positive change and awareness among people to protect nature. This year also various cells and departments collaborated to celebrate the world Environment Day by organizing a wide range of activities.

The Department of Physics and Energy Conservation Club jointly conducted a **talk on “Energy Conservation”** on 5th June 2018 at seminar hall. The resource person was Dr. Vimala George, Assistant Professor, Department of Physics, St: Xavier’s college, Aluva. Resource person talked about the **need for energy conservation in today’s world** and the various ways of implementing them. Nearly 20 students participated in the program. The resource person explained about **effective measures to reduce energy consumption in the households.**



The Department of Botany, Physics and Bhoomithrasena Club celebrated World Environmental Day on 28th June 2018 on the **theme – Impacts of Plastic Pollution on Ecosystem Health.** This was funded by **Kerala State Council for Science Technology and**



Environment, Thiruvananthapuram. The event was aimed to **raise awareness of the value of the resources on our planet and the need to protect them.** The celebration was started off by planting of sapling by college Principal Prof. T.S. Rajeev in the college campus. The program was inaugurated by Dr. K.N. Shibu, the Director of Thanal, Thiruvanthapuram. He described various threats to aquatic and terrestrial ecosystems caused by plastic pollutants. The need of conservation of our natural ecosystems is vital for the time being, he said. Following which, saplings were distributed to students which were planted in different locations in the campus. Smt. P.P. Mini, Head, Department of Botany delivered the environmental day message. Poster, essay writing competitions and environmental day quiz was also conducted. The seminar session was very informative. The resource person explained about the advantages and disadvantages of using plastic materials. The seminar session enlightened the students with alternative material for plastics. Eighty-eight students participated in the program.



Mazha Malayalam

Malayalam department on 1st August 2018 conducted “Mazha Malayalam”. Students and teachers shared songs, poems, stories and intellectual emotional experiences in this event based on the theme rain. 60 students participated in the program. **The program was conducted to create awareness about nature and its significance among students.** The



program was inaugurated by Principal Dr. C M Sreejit and Dr. T H Jitha, head of the department presided over the meeting.



World Ozone Day Celebration

Bhoomitrasena club and Department of Zoology with the support of **Kerala State Council for Science Technology and Environment, Department of Science and Technology, Government of Kerala** organized a one-day seminar on 18th September 2018 in connection with **World Ozone Day**. Celebration was conducted in the college to generate awareness among the students about the **significance of ozone layer and to inspire the students to inculcate ozone friendly life style** by using ozone friendly products. Ninety-nine students participated in this program. The seminar session provided insight into causes and impacts of Ozone depletion. The highly informative talk was given by Dr. Jagannath.V, Associate professor, Department of Zoology, St. Peters College, Kolenchery. Later **Quiz completion and poster competition** were conducted. The seminar session was very informative. The resource person explained about the importance of ozone layer and about greenhouse gases.



Seminar on World Wetland Day Celebration

Bhoomitrasena club with the support of **Kerala State Council for Science Technology and Environment, Department of Science and Technology, Government of Kerala** organized a one-day seminar on 1st February 2019 in connection with **World Wetland Day** commemoration. Prof. E. P. Yasodharan, Professor (Emiretus) Department of Environmental science, CUSAT was the resource person for the program. World Wetland Day celebration was conducted in the college **to generate awareness among the students about the significance of wetlands and to inspire the students to inculcate wetland friendly life style** by using ecofriendly products. The seminar session equipped people with the knowledge about the methods of wetland management. Eighty-two students were part of the program. The talk had brought out the needs to protect the wetlands. The resource person had given an insight about the present scenario about the Wetlands in India and all over the worlds.



Exhibition Of Indigenous Medicinal and Socioeconomic Plants: NATTUPACHA

Nattupacha - An exhibition of Indigenous medicinal and socioeconomic plants was organised by department of Botany on 4th February 2019. About **125 plants were exhibited**. The flowering twig of each plant was displayed along with label containing details of common name, scientific name and family of the plant. The exhibits were arranged by the students of final year degree class. **The students became aware of common medicinal plants seen in our surroundings**. More than 100 students visited the exhibition. The exhibition served as a learning experience for our students and also increased their knowledge about medicinal uses of commonly available plants.





An Exhibition of Indigenous Fruit and Vegetable Exhibition: “Frukto- Fruit Fest

An exhibition “Frukto- Fruit Fest - the indigenous fruit and vegetable exhibition” was held on 8th February 2019, by the department of Botany. About 146 exhibits with their common name were displayed. The fruits were collected by the students of Botany department. Dr. C. N. Sunil faculty member of the department also bought underutilized fruits available locally. The fruit of each plant was displayed along with label containing details of common name, scientific name and family of the plant. The third-year students are studying taxonomy as part of the syllabus, therefore this **exhibition helped them to study the scientific name and family of commonly seen fruit plants.**



Seminar on Biodiversity Conservation and You

The association of Zoology department organized a Seminar on “Biodiversity Conservation and You” on 13th February 2019. The resource person was Sri Sajeev T K an Environmentalist. 100 students participated in the program. The talk **focused on the role student’s play in creating a beautiful future by following a sustainable way of life.** Small changes which can be made in our daily life to create more positive outcomes in long term conservation of nature was also discussed in the talk.



National Seminar “Bhoomi, Jalam, Manushyan”

Two Day National Seminar ‘Bhoomi, Jalam, Manushyan sponsored by **Directorate of Environment & Climate change, Govt of Kerala and Petronet LNG** was organised by Bhoomithrasena Club on 21st and 22nd February 2019. The program was conducted **to create awareness about the effects of human invasions in nature and to motivate students to carry out an ecofriendly lifestyle**. 269 members took part in the program including teachers and students. The keynote address on the topic “**Aagolathapanam-Samudrathinte Pank**” was delivered by Dr. K.V.Sanil Kumar. The highly informative talk provided insights into the need of protecting sea from pollution and the major concern which our society and nature is facing due to unrestrained use of ocean. The chief scientist of NIO M.R. Ramesh Kumar explained the importance of climate change and change in monsoons. The topic titled as ‘Mazhayude mattangal, kalavasta vyathiyannam’ deeply explained about the importance of low pressure zones in the sea. C.R. Neelakandan, environmentalist shared his life time experience on flood relief through the topic “Pralayam nalkunna paaristhitika paadnagal”. The speaker Dr. K.G. Thara explained and demonstrated various methods and techniques in connection with disaster management. She shared incidents which she faced during the Kerala flood. Dileep Madhavan, Senior manager Fire of petronet LNG had explained about the importance of liquefied natural gas and its application in various fields. He also highlighted the economic importance of the natural gas and explained the methods of



utilization of LNG in houses. Prof. E. P. Yasodharan had given a clear-cut idea about the causes of the recent flood in Kerala in his discussion “Ini Varumo Ithuvazhi Pralayam”. He invited the audience attention to various factors which may lead to the flood or any type of environment issues.



Seminar on Environment & Climate change

Bhoomitrasena club with the support of **Directorate of Environment & Climate change, Govt of Kerala** had organized a one-day seminar on 25th March 2019. The program was coordinated to **educate community about the significance of the solar system**. Dr. V Kripa, Fishery Environment Division, Central Marine Fisheries Research Institute (CMFRI), Kochi was the resource person. Forty-three students took part in the program. A seminar was conducted on the topic “**The sun the Earth and the Weather**”. The two sessions were delivered by Dr. V Kripa. The **talk was focused on Sun which delivers the energy that powers all life on Earth**. The talk had brought out the needs to protect the atmosphere. The resource person had given an insight about the present scenario about the environmental condition in India and all over the world.



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