

# **BEST PRACTICE I**

**TITLE OF THE PRACTICE: VILLAGE ADOPTION PROGRAM**

**“GRAMODHARANAM KALALAYA VIDYARTHIKALILUDE”**

SNM College, Maliankara is located in the village of Maliankara with its vast population belonging to the socially and economically backward classes. The Village Adoption Programme has been implemented by the college by adopting WARD I and II of Vadakkekkara Panchayat which are adjacent to the college. This programme has helped to establish a close liaison between the college and the villagers. The *Village Adoption* programme was initiated with the objective of boosting the upliftment of the adopted village by providing various support by all the departments and supporting units of the college.

**OBJECTIVE OF THE PRACTICE:**

The Village Adoption Programme “Gramodharanam Kalalaya Vidyarthikalilude” is an initiative taken by IQAC to inculcate the idea of social responsibility among the students. It was started in the academic year 2019-20 by adopting ward 1 and 2 of Vadakkekkara panchayath. The programme helps to equip and familiarize the students and faculties with the socio-economic dimensions of the rural community and to make the students more socially responsible. SNM College Maliankara implemented the village adoption programme with the aim to help the people to improve their way of living. It is the obligation of every institution to upbringing their students by giving them a chance to experience the reality of the society. Being a part of this programme, students will get an insight into the real world and the issues confronted by the common people which will make them more responsible citizens in future.

The college had started this programme with the following objectives:

- To inculcate social responsibility in students.
- To give opportunity to the students for experiencing the reality of life
- To help the people in the village lead a better life from their present condition

- To create a culture of togetherness among the students
- To foster inter connectedness, unity, etc among the students
- To build sensitivity towards fellow beings and the environment

## **THE CONTEXT:**

The higher education institutions in India are mostly involved in teaching and research but rarely in community engagement. ‘Village Adoption’ can be one of the ways for institutions of higher learning to have regular development engagement with rural community. We initiated this programme to develop the village through the students. This programme aims at taking students from classroom to the real world outside. In the modern world, where students are getting more and more self-centered, it is really a challenge to drive the younger generations towards community service. If it is the part of curriculum, we can achieve the goal easily.

## **THE PRACTICE**

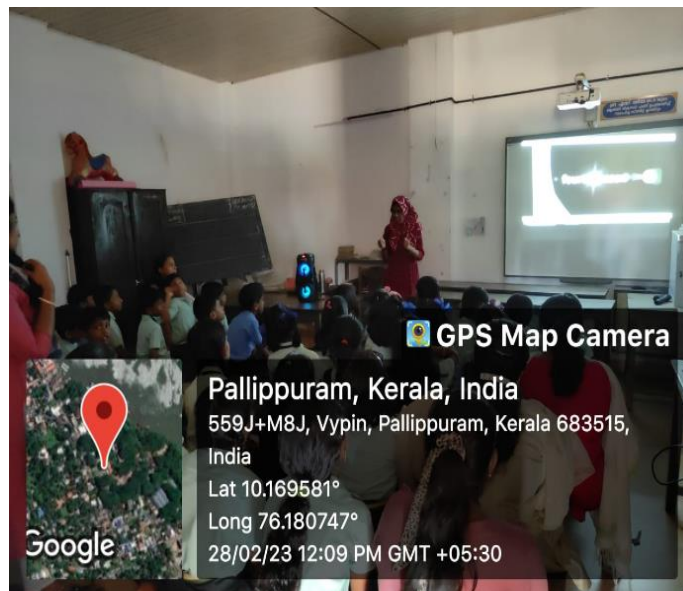
As part of the village adoption programme a number of activities were conducted in the adopted village by the students and teachers of the college during the academic year 2022-23.

The department of Malayalam gave a class on “ Thettillatha malayalam then malayalam” to create interest in Malayalam language and its history. A language instruction class was conducted for LP school students of SNM LPS Maliankara . PG students of the Malayalam department gave a class on the language and its traditions. A seminar was organized in connection with the programme. Anti drug campaign followed the seminar. This programme has

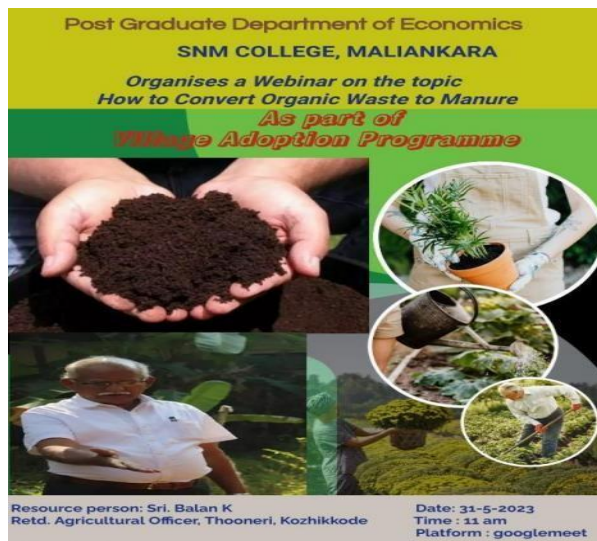


great importance because Malayalam has attained the status of mandatory official language in Kerala. Moreover it is important to use mother tongue without mistakes.

The village adoption programme of the department of English for the academic year 2022- 23 was initiated with the objective to boost the communication skills and to create awareness about grammar. The target of the programme was the development of the students of rural area (ward 1) through improved output. To generate awareness on grammar, the students prepared and shared video lessons. Parts of speech was introduced to the students. They were able to improve their speaking skills too. The intention is to provide them efficacy in fourfold language skills. The video lessons prepared by the students helped in improving the language skills and the knowledge of basic grammar in English, which in turn helped them to improve more on the speaking and writing aspects of language. To provide energy conservation awareness among LP students by providing simple steps for energy conservation the department of English organized an awareness talk on energy conservation. The target of the talk was the development of the students of rural area (ward 1) through improved output. As part of Energy Conservation, students had taken an awareness class for school students. The students actively participated in the session. It is the decision and practice of using less energy. Small tips and hints were given to them in order to control the wastage of energy. They participated in the quiz activity given to them. In addition to this, an interactive session was conducted to clarify the doubts of schools students.

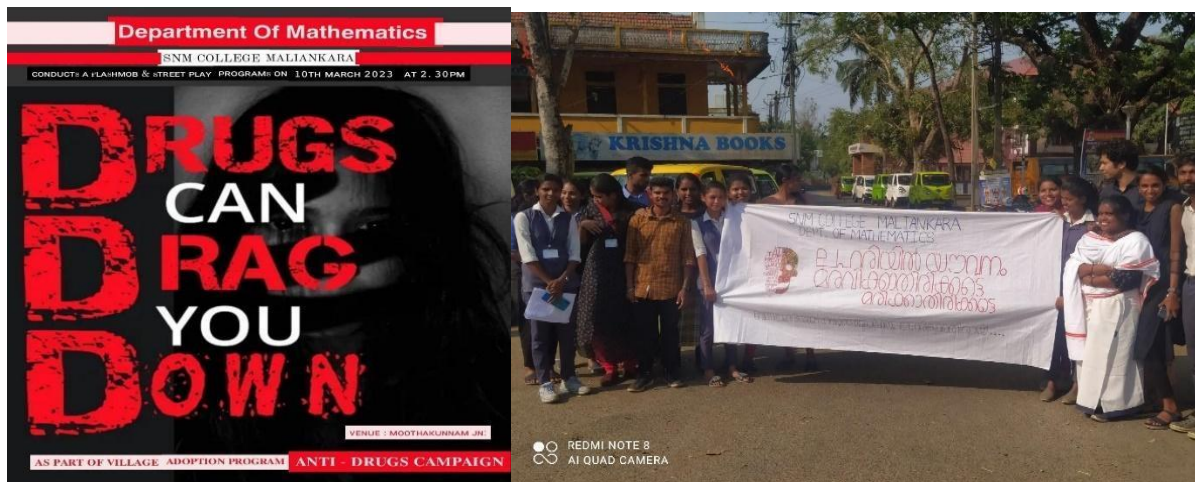


As part of the Village adoption program, the Department of Economics organized a webinar on the topic 'How to convert organic waste to manure' on 31st May 2023 for Kudumbasree units of Vadakkekara Panchayat. The resource person was Sri. K Balan, Retd. Agricultural officer, Thooneri of Kozhikkode District explained different methods of converting biodegradable waste to organic manure. He also demonstrated how to make manure from food waste and plant products. The webinar was very effective in giving insight to the kudumasree members as well as to the students about organic manuring. Participats could clear their doubts about the application of organic farming practices for different vegetables and plants.



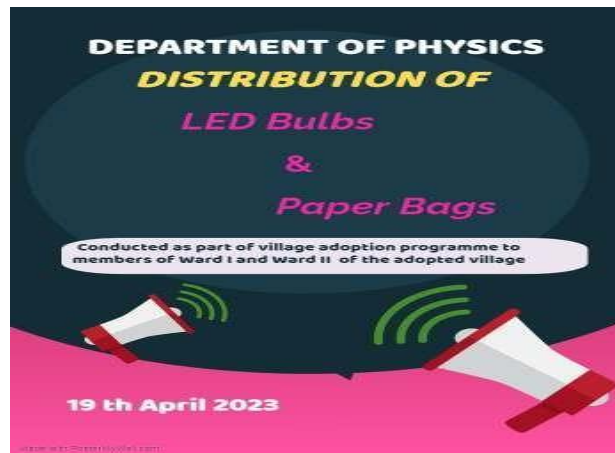
The primary goal of the campaign organized by the department of Mathematics was to increase awareness among the community members about the dangers and harmful effects of drug abuse. The campaign aimed to mobilize support from the community, inspiring them to take action against drug use and contribute to a drug-free which was led by environment. By showcasing the negative consequences of drug abuse through the street play, the campaign aimed to inspire individuals to take proactive steps in preventing and combating drug addiction. The Department of Mathematics initiated an impactful anti-drug campaign as part of their village adoption program the students of III BSc Mathematics, the campaign aimed to raise awareness about the dangers and harmful effects associated with drug abuse. A flash mob and street play were organized at Moothakunnam Junction to engage the community and encourage them to take a stand against drug use. The anti-drug campaign consisted of two main activities: a flash mob and a street play. These activities were carefully designed to capture the attention of the public and effectively deliver the message about the dangers of drug abuse.





The UG students of the Department of Physics has distributed LED bulbs and paper bags to all members of Ward 1 & Ward II of the adopted village. LED bulbs that were distributed were assembled by the students themselves during LED bulb making workshop that was conducted as part of energy conservation club activity in collaboration with NSS unit of SNM college, Maliankara. They also described to the members about the merits of using LED bulbs and the various ways of reducing power consumption. They have also made paper bags and have distributed the same to all nearby shops.



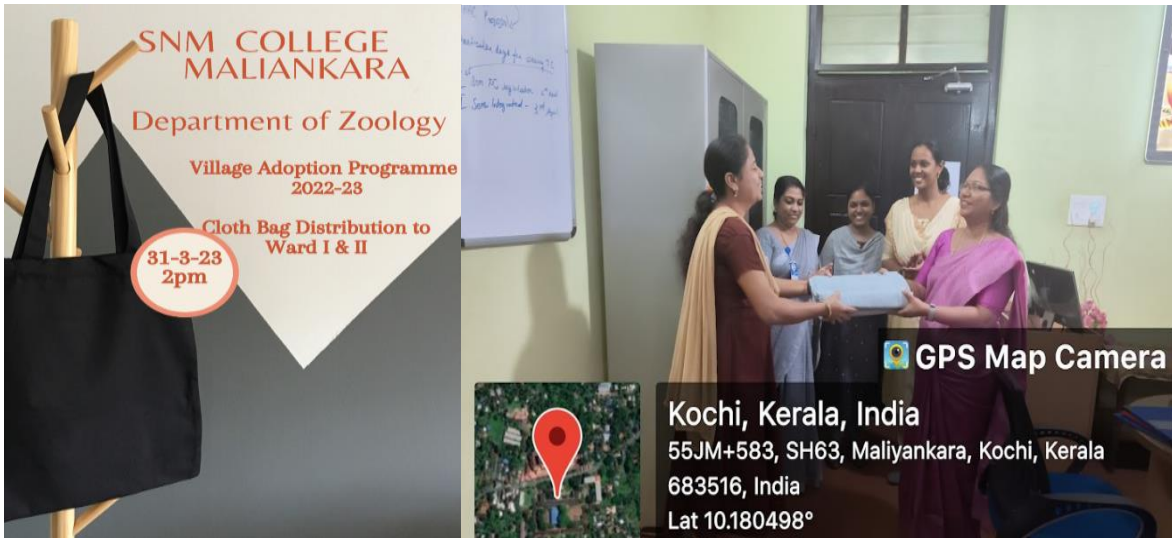


The department of Botany conducted conservation and restoration activities in the Sathar Island. A field trip was conducted. This programme started in 2016 and since then, every year the teachers and students have been visiting this area to plant new saplings of mangroves. To ensure the survival rate of new saplings, the plants are frequently monitored.

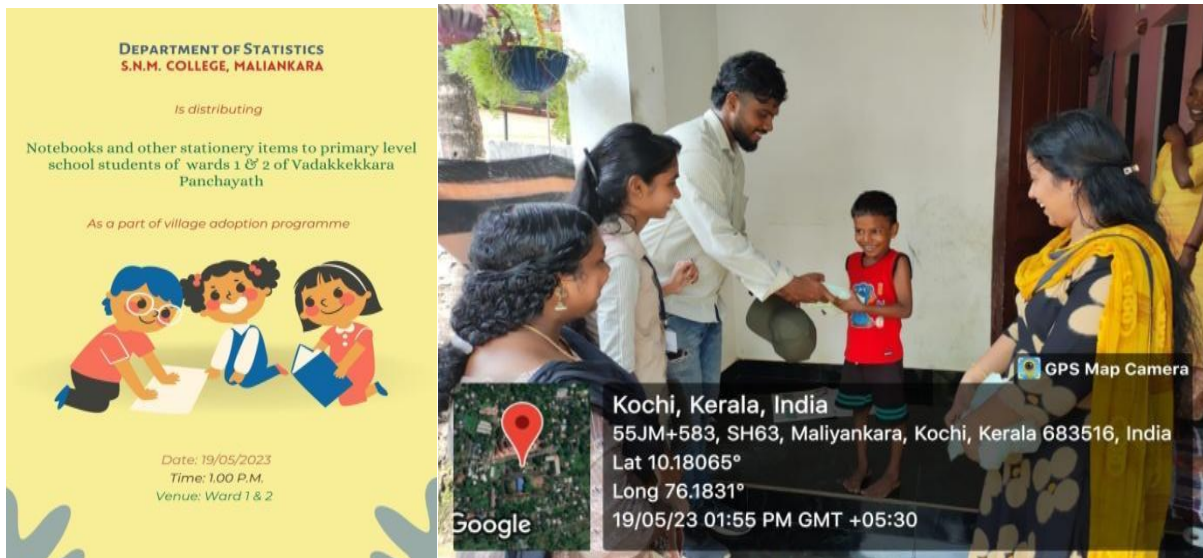


In connection with the village adoption programme 2022-2023 the activity organized by the department of zoology was the distribution of Cloth bags in ward I & II. This programme helped to promote the use of cloth bags instead of plastic bags.

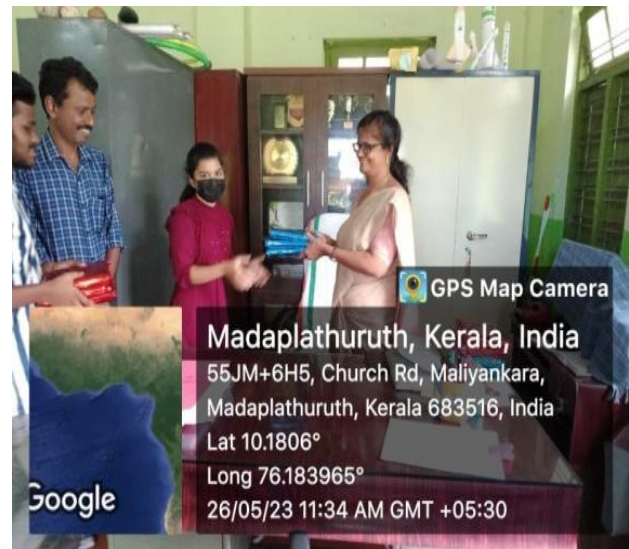




Department of Statistics distributed notebooks and other stationery items to the primary level school students of wards 1 & 2 of Vadakkekara Panchayath on 19/05/2023. The teachers and students took effort to distribute notebooks and stationeries contributed by students and teachers of the department, at the residence of the primary school students.



The Department of Commerce distributed study materials to the students of SNM Govt. LP School, Kottuvallikkad, which is situated in ward 2 of adopted village. The main beneficiaries of the programme were economically backward students of the school.



Narayana Study and Research Centre, as a part of the village adoption programme, conducted an introductory class and singing competition on 26th April at the college seminar hall for the people of Vaddakekara panchayat ward 1&2.





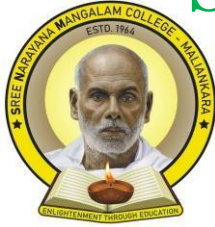
The Village Adoption Programme helped to promote activities beyond the college premises, which inculcated the values of compassion among our students for the society in which we live in and in turn carves out responsible citizens for tomorrow. The college contributed to the advancement of the villagers of the adopted wards in the best way possible that too at the crucial time.

### **PROBLEMS ENCOUNTERED**

The main problem encountered is the lack of sufficient time to conduct activities due to the semester system and that too during the post pandemic period. Another problem is the limitation of funds. Also we could not find collaborations for the programme as the pandemic has hit the industry and the society.

### **MEASURES TO BE TAKEN**

- Include Community engagement in university curriculum.
- Give credits to students for the community service.
- Find Human Resources for the programme.
- Raise Sufficient Funds for the programme.
- Initiate Collaborations for the programme.



# S N M COLLEGE, MALIANKARA

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## BEST PRACTICE II



### Title of the Practice: SAAKALYA

### A GREEN INITIATIVE OF S.N.M COLLEGE, MALIANKARA TO SAVEOUR EARTH & PROTECT ENVIRONMENT

#### The Context:

The survival and well-being of all living beings in this world are intricately tied to the environment. Each individual's contribution, no matter how small, can have a profound impact on future generations. As the present generation, it is our responsibility to safeguard and preserve the natural world for the sake of those who will come after us. We must ensure that the coming generations inherit a good and healthy environment, just as we have been fortunate to enjoy. The growing concern for environmental protection is evident on a global scale, as we have come to understand the irreversible and harmful

effects of environmental degradation on all life forms, including animals, humans, and plants. In this context, sustainability has become an increasingly relevant concept, and Higher Education Institutions have a vital role to play in fostering a sustainable ecosystem through their efforts to promote environmental protection activities. By actively engaging in initiatives like tree-planting drives, waste reduction campaigns, and eco-friendly practices, these institutions can instill a sense of responsibility and awareness in students, shaping them into environmentally conscious citizens who can lead the way towards a greener and more sustainable future.

SAAKALYA, a green initiative by S.N.M College, stands as a powerful endeavor to preserve our planet and protect the environment through education, research, community partnerships, and various other means. This program provides a special opportunity to integrate sustainable practices into the college community, inspiring and preparing students, faculty, and visitors to make a positive difference in the world. The college firmly believes in its "moral responsibility" to promote sustainable practices, recognizing that it plays a crucial role in shaping the next generation of young adults who will carry the torch for environmental stewardship in the future. As environmental issues become increasingly complex and deeply rooted in our world, students armed with knowledge about their surroundings and the challenges they will face in the coming years become invaluable assets to society. Through SAAKALYA, S.N.M College not only strives to reinforce environmentally-friendly practices within its own campus but also ensures that its students are well-educated about sustainability topics and empowered to take meaningful actions to protect the environment for a greener and more sustainable future.

### **Objectives:**

- To help the students in realizing the inter-relationship between man and environment.
- To develop a sense of awareness among the students about importance of environment and its issues.
- To help the students in realizing the importance of taking proper steps to solve environmental problems.
- To create an environmentally friendly, sustainable campus
- To spread the notion of environmentally friendly culture to the surrounding community and wherever applicable.
- To enlighten them about the changes in the environment in the last decade and the consequences of their present actions.
- To support the Swach Bharath movement in the country.
- To inculcate the culture of making our Environment green and clean





## The Practice:

### I. Incorporating sustainability into the curriculum

University syllabus of UG and PG programmes integrate sustainability into the curriculum is by incorporating concepts “across the curriculum” and infusing them in all courses. All the UG programmes have one compulsory course connected to environment. S.N.M College has two departments, namely Botany and Zoology mainly deals with environmental related courses, both departments offer 2 programmes each, B.Sc Botany, M.Sc Botany from the department of Botany and B.Sc Zoology, M.Sc Zoology from Zoology department. The online programme MOOC course on Organic Farming provided by the affiliated university with a well-defined syllabus and online learning resources enables students to develop interest in organic mode of agricultural practices. To instill the values of conserving the environment, to understand the myriad of challenges facing the environment, different projects are being assigned to the students on environment related topics.

College offers five Certificate Courses related to Environment and one compulsory MOOC Course by MG University Kottayam on organic farming

1. Solar- LED Product Making  
<https://snmcollege.ac.in/wp-content/uploads/2023/08/LED-Making-certfcate-course.pdf>
2. Fundamentals of Organic Farming  
<https://snmcollege.ac.in/wp-content/uploads/2023/08/Fundamentals-of-Organic-Farming-IQAC-Certificate-Course-Syllabus.pdf>
3. Energy Management and Energy Auditing  
<https://snmcollege.ac.in/wp-content/uploads/2023/08/Energy-Management-and-Energy-Auditing-certificate-course.pdf>
4. Health and Hygiene  
<https://snmcollege.ac.in/wp-content/uploads/2023/08/Health-Hygiene-Certificate-course-Syllabus-Zoology.pdf>
5. Health Impact of Chemicals  
<https://snmcollege.ac.in/wp-content/uploads/2023/04/Health-Impact-of-chemicals.pdf>
6. MOOC Course-Organic Farming  
<https://snmcollege.ac.in/wp-content/uploads/2023/04/MG-UNIVERSITY-MOOC-ON-ORGANIC-FARMING-SYLLABUS-1-2.pdf>

These are some of the projects undergone by our students from different departments in the academic year 2022-23 Related to Environment and Sustainability into the Curriculum

Sl. No	Class	Name of the student	Name of the project
1.	II BSc BOTANY	A. M. Krishnendu	Study on Banana varieties and their utilization in the selected home gardens of Pallipuram panchayath
2.	II BSc BOTANY	Divya A. M.	Periphytic microalgae in the Azikode estuary
3	I MSc BOTANY	ABHIRAMI P S	A study on different Plants in Asteraceae family and their medicinal uses
4	I MSc BOTANY	AFREEZA	A Study on different plants in Rutaceae family and their Medicinal uses

5	I MSc BOTANY	AJANYA T	Carbon sequestration potential of tree species of Sree Narayana Mangalam college campus, Moothakunnam
6.	I MSc BOTANY	ANJANA K S	Study of Phytoplankton diversity of Moothakunnam Temple pond
7	II BSc Mathematics	ANJANEY SUNILKUMAR	Waste management and recycling initiatives
8	II BSc Mathematics	KEERTHANA K J	Renewable energy sources and their impact on climate change
9	II BSc Mathematics	KRISHNAVENI V S	Renewable energy sources and their impact on climate change
10	II BSc Mathematics	SANGEETHA M S	Climate change adaptation and mitigation strategies
11	II BSc Mathematics	AKSHAY K S	Climate change adaptation and mitigation strategies
12	II BSc Mathematics	ASWATHI C R	Gender equality and empowerment
13	II BSc Mathematics	ATHIRA JIJEEESH	Conservation of biodiversity and ecosystems
14	II BSc Mathematics	DENSHAMOL P S	Conservation of biodiversity and ecosystems
15	II BSc Mathematics	DEVICHANDANA C S	Gender equality and empowerment
16	II BSc Mathematics	DINU K D	Waste management and recycling initiatives
17	II BSc Mathematics	SREELAKSHMI P P	Climate change adaptation and mitigation strategies
18	II BSc Mathematics	VISHNUPRIYA S P	Waste management and recycling initiatives

19	III BSc Zoology	Adithya Parvathy Anil	A Study On Spider Diversity In Thonniyakkavu, Ernakulam District Kerala.
20	III BSc Zoology	Amrutha A.S	A Study On Ant Diversity In Ezhikkara Panchayat, Ernakulam District, Kerala.



21	III BSc Zoology	Anagha K.M	A Comparative Study On The Insect Diversity In Sacred Groves Of Kodungallur Municipality, Thrissur.
22	III BSc Zoology	Anagha P.U	Role Of Arthropods In Maintaining Soil Fertility
23	III BSc Zoology	Anamika E.A	Project Report On Ant Diversity In Limited Areas Of Thamarakulam
24	III BSc Zoology	Anamika Sudheer	Study Of Insects Fauna In Valappu
25	III BSc Zoology	Antony Prinils	The Impact Of Detergents On Soil And Microbial Health
26	III BSc Zoology	Aswani Sidhardhan	A Study On Mosquitoes In Devasampadam Varapuzha P.O
27	III BSc Zoology	Aswin Kesav A.M	Diversity Of Spider In Cardamom Plantation In Mankulam, Idukki District, Kerala
28	III BSc Zoology	K.A Nivedhitha	Study On Survey Of Diabetes And Uric Acid Individuals In Paravur , Ernakulam District.
29	III BSc Zoology	Melvin Titus	Diversity Of Leech In Mankulam Panchayat Idukki District Kerala
30	III BSc Zoology	Priyanka M.R	A Comparative Study On Insect Diversity In Nayarambalam And Njarakkal Panchayat, Ernakulam District, Kerala.
31	III BSc Zoology	Safna Nizar	Diversity Of Spider In Snm College Maliankara, Ernakulam District Kerala.
32	III BSc Zoology	Sreedevi M.R	A Study On Diversity Of Coleopteran Insects In Pallipuram Village Ernakulam District Kerala
33	III BSc Zoology	Sreeraj V.J	Peculiarities Of Termites In Nayarambalam Ernakulam
34	III BSc Zoology	Afmitha K.Z	Comparative Study On Bivalvia Diversity Along The Intertidal Zone Of Cherai, Kuzhupilly, Munambam Beach, Ernakulam District
35	III BSc Zoology	Aneena V.B	Comparative Study Of Birds In Moothakunnam Village And Paravoor Municipality

36	III BSc Zoology	Ardhana V.J	Praying Mantis Diversity In Puthenvelikkara Panchayat, Ernakulam District, Kerala
37	III BSc Zoology	Arya V Anuraj	Diversity Of Soil Organisms In Limited Locality At Sringapuram
38	III BSc Zoology	Ashitha B.S	A Study On Insect Pests In Pallipuram Village
39	III BSc Zoology	Ashitha K.S	A Study On Indoor Diversity Of Insects In Home At Limited Locality Of Elinjamkulam

40	III BSc Zoology	Fathima Nasrin T.S	Comparitive Study Of Molluscan Diversity In Cherai, Kuzhupilly And Munambam Beach
41	III BSc Zoology	Gayathri Sreenivasan	The Study Of Insect Diversity In Snm College Maliankara
42	III BSc Zoology	Gayathri V.G	Diversity Of Dragon Flies In NorthParavur And Local Areas In Kadamangalam
43	III BSc Zoology	Harsha M.H	A Study Of Ant Diversity In Karumalloor Village ErnakulamDistrict
44	III BSc Zoology	Nandhana K.S	A Study On Insect Fauna In Kottuvally Village North ParavurErnakulam
45	III BSc Zoology	Nikhila V.P	A Study On Diversity Of ButterfliesIn Kadamangalam Region Ernakulam District Kerala
46	III BSc Zoology	Nimay J	Study On Musth And Its Effects OnThe Captive Male Asian Elephants(Elephas Maximus) Of Kerala
47	III BSc Zoology	Niranjana K sudhi	Study On Bio Diversity Of Snail In Chittattukara Panchayath
48	III BSc Zoology	Sheethal K.S	Comparative Study Of Gastro Pod Diversity In Cherai, Munambam And Kuzhupilly Beach Ernakulam Kerala
49	III BSc Zoology	Sivanadana N.V	Diversity Of Spider In Ezhikara Panchayath Ernakulam District Kerala
50	III BSc Zoology	Sreelakshmi T.M	Comparative Study On Molluscan Diversity In Fort Cochi And Malpe Beach By Identification Of Shell
51	III BSc Zoology	Aiswarya V.S	Comparative Study Of Classes Asteroidea And Echinoidea Of Phylum Echinodermata
52	III B.Com	AKSHAY K.S	E-waste management in Paravur Municipality
53	III B.Com	ANNA MARIA SAIJU	Consumer behavior on green electronics products
54	III B.Com	ARYAN M S	Consumer preference on electric vehicles
55	III B.Com	LENA V.S	E-waste management in Paravur Municipality
56	III B.Com	ANJUSHA.P.J	Consumer behavior on green electronics products

## II Co-curricular ways to increase sustainability education

Co-curricular opportunities create environmental education among students by celebrating national and international environmental related days, forming any student-run groups, conduct seminars and awareness classes, various competition etc.

The Department of Mathematics and Statistics organized the event “Plant with Love” as part of the Azadika 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, starting at 10:30 am. The event saw the enthusiastic participation of both teachers and students. The event was inaugurated by Sri Ajan K A., the Head of the Department, along with Dr. Linu M N., the 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 Sri Ajan K A. He shed light on the current state of our environment and emphasized the urgency of tree plantation for ecological preservation. Sri Ajan K A. 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.





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



As part of 'World Environmental Day and Asadi ka Amrith Maholsav', the Research Department of Botany S N M College Maliankara conducted a Seed collection of fruit plants at the college level 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 and prepared for seed banks and creating fruit forests even in limited space.

Department of Business Administration (SF), SNM College, Maliankara has coordinated an event “*ECOLOGICO*” in connection with World Environment Day on 9<sup>th</sup> June 2022. The program covered Environment photography and Ecocraft. The students from different departments participated in the event and the prizes were distributed. Department-level Competition - “*ECOLOGICO*”





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 Sanil Kumar M G, Head and Research Guide, Dept 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



On June 5th World Environment Day, NSS Volunteers organized a tree plantation program at college campus. The volunteers also distributed plant samples 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. After the plantation, the NSS volunteers distributed plant samples to all the participants. Each volunteer received a plant sample to take home and grow. 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.



The program aimed to develop photography skills and to raise awareness about wetlands. 9. Detailed description of the event: As part of World Wetland day, Department of Botany was conducted Wetland Photography contest at college level on February 2 nd , 2023. The theme was “Wetland: Supporting life, sustainable livelihoods”. 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 and shared this message to all departments. Adwaith K J (I BSc Zoology, Arya Raju (III BSc Botany) and Saniya V S (I BSc Botany) secured first, second and third position respectively.



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 MSc 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 delved into 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 systems.





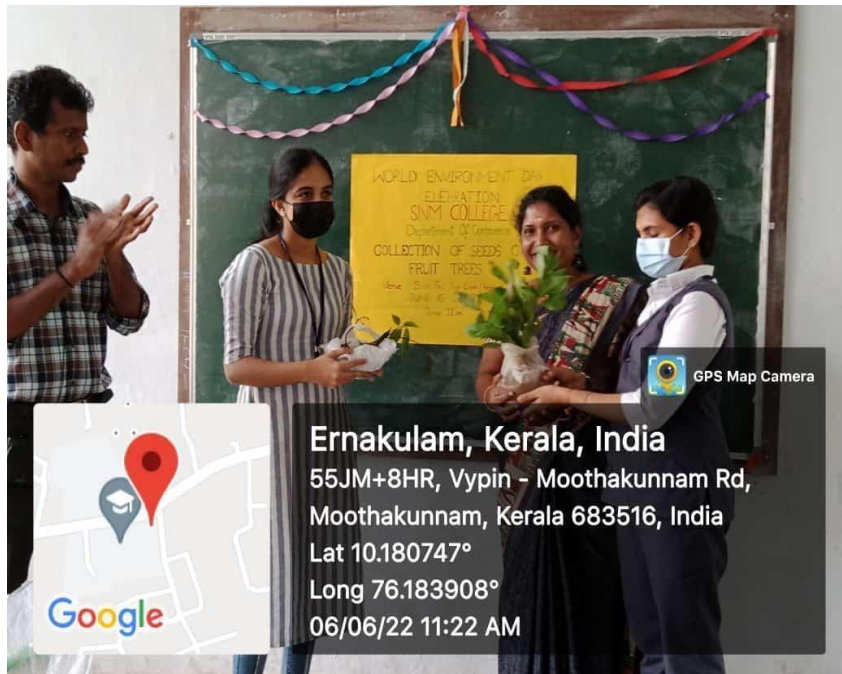
An awareness class on environment protection was organized for the students of SNMLP School Maliankara on 3rd March 2023 at 2 PM. The class was conducted by a group of 3rd-year B.Sc Mathematics students, namely Ashapriya P A, Nikhisha M N, Aryananda T S, Aleena P A, and Sandra Santhosh, under their leadership. The session covered a wide range of subjects, including the significance of reducing plastic production, proper disposal of plastic, waste segregation, water pollution, water conservation, drought prevention, protection of plants and trees, ensuring future survival, and maintaining cleanliness in school and home surroundings. The students delivered the content in an interactive manner, using chart paper, baskets made from waste plastic pens, and flowers made from plastic covers to engage the children. Through singing, playing games, and dancing, they created an enjoyable and interactive learning environment. The children actively participated in the class, showing great interest in the topics discussed



As part of World Ozone Day, an inter-departmental quiz competition was conducted by Department of Chemistry. Sneha V.J, a first-year M.Sc. Chemistry student, was the Quiz Master. The quiz comprised 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 preparation and 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 BSc Mathematics students, bagged the first prize. The second prize went to Vishnu M.A and Anjaney Sunilkumar, also second-year BSc Mathematics students, while the third prize was awarded to Manuraj and Hridhya, second-year MSc Physics students. Later, Aiswarya K.P, a second-year MSc Chemistry student, delivered a speech on the importance of World Ozone Day and the need to protect the ozone layer.



To draw attention to environmental issues and motivate youngsters to live in harmony with nature, Department of Commerce celebrate Environment Day by giving a talk on nature and its preservation.



NSS Unit no 47 celebrated the 153rd Gandhi Jayanti on October 2. The NSS volunteers were divided into five groups with leaders, and they cleaned the campus section-wise. The wastes were classified into plastic, organic, rubber, etc. After the cleaning, NSS volunteers and NCC cadets jointly prepared Kappa brewed, mint, and tea.



NSS volunteers cleaned SNM College as a part of dry day on 17 th June 2022. The event was attended by 100's of 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 process. 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





NSS Unit 47 has cleaned the college and Nearby area under the guidance of NSS Program Officers. Cleaning activities like these play a crucial role in creating a conducive learning environment for students and promoting a sense of responsibility towards the surroundings.



NSS Unit 47 cleaned the college premises and its nearby area on the occasion of Environment Day and dig pits for planting saplings.





To enable the students to learn how to make useful materials from waste objects, Department of Commerce and IIC jointly conducted a workshop on ‘eco friendly initiatives’ on 24/03/2023 at 1:30PM in seminar hall. The resource person AjithaMurali demonstrated how to convert old jeans into handbags. The members of the adopted wards (kudumbasree members) attended the programme. They were given practice of making useful handbags from waste jeans. Sufficient materials like jeans, scissors etc. were provided.



To create awareness on the impact of sea food on human nutrition, A webinar on Sea Foods in Human Nutrition was conducted on 3-8-2022 at 10.30 am as a part of National campaign by Zoology Department. **Dr Pavan Kumar Dara**, Research Associate, ICAR-Central Institute of Fisheries Technology was the resource person



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 28-2-2023 in connection with National Science Day. 156 visitors explore the beauty of animal life, all are

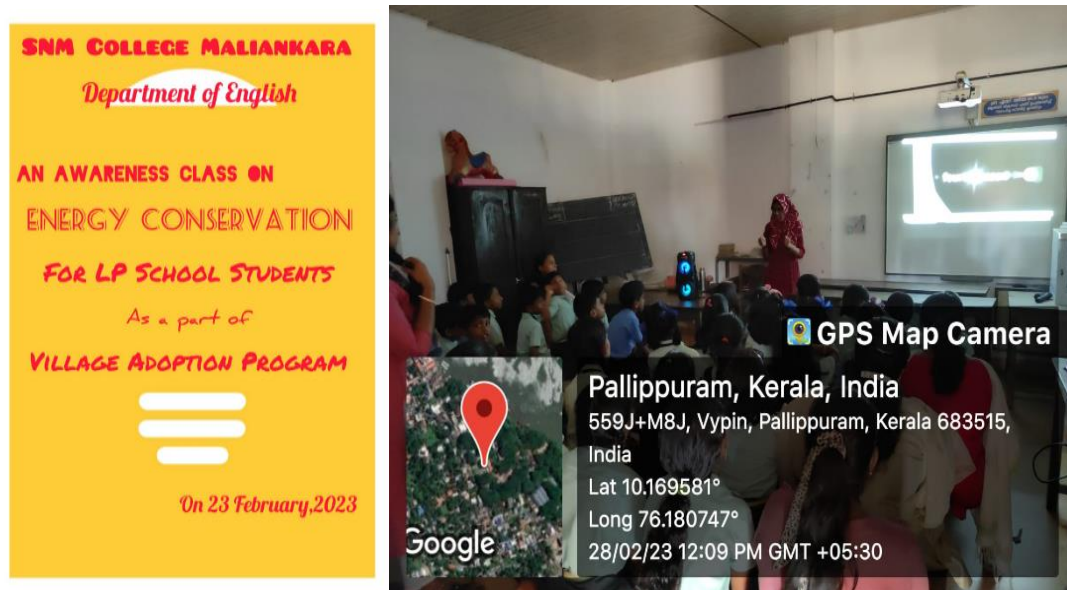


made positive

review about the programme



Department of English conducted an awareness class to provide energy conservation awareness among LP students by providing simple steps for energy conservation on 23/2/2023 and 28/2/2023. The Village Adoption Programme helps in promoting activities beyond the college premises, which inculcates the values of compassion among our students for the society in which we live in and in turn carves out responsible citizens for tomorrow



Energy Conservation Club- Student's Chapter organised a talk on 'Awareness on Energy Conservation' on 13/12/2022 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 for the sustenance of human beings. The session proved to be beneficial for the UG and PG students of the college



To Promote khadi products and create self reliance among the students to build up a strong rural

community spirit., Department of Commerce organized Khadi fest on 22, 23 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. This encouraged the students to buy



more of the products. Khadi dress materials like sarees, churidars, blanket, pillows, organic skincare products and natural honey were the main attractions of the exhibitions.

To make awareness on common Zoonotic diseases, Department of Zoology conducted a talk on 31-1-2023 by Dr. Shaji E M, Associate Professor & HoD, Dept. of Zoology, KK TM Govt. College Pullut





To create awareness about the importance of Dhashapusham, Department of Botany in connection with Karkkidaka Malayalam month (July-August), a ten-day awareness exhibition about Dhashapusham was conducted from 25-7-2022 to 17-8-2022 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, medicinal importance etc



## International conference

IQAC organised two-day program Multi Disciplinary International conference on the topic



– Green Economy Initiatives: Perspectives and Challenges in Hibrid Mode. 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>

## II. Community Engagements

Community partnership or engagement deals with how college interfere in the community and society to develop awareness and to create consciousness about environmental issues and the need for its protection. College conduct number of extension activities in nearby communities include hosting lectures or events on sustainability topics, collaborating with decision makers and other key stakeholder. through NSS, NCC, Boomithrasena Club and Village adoption programmes.

On 8th June 2022, in celebration of World Ocean Day, a cycle rally was organized to raise awareness about the critical importance of saving the ocean and protecting the environment.



The event aimed to convey a powerful message to citizens, urging them to take action and be responsible stewards of our planet's precious resources. The rally saw enthusiastic participation from 10 SD (Senior Division) and 6 SW (Senior Wing) cadets, who were deeply committed to the cause. To amplify the message, the cadets created vibrant posters advocating for the preservation of the ocean and its biodiversity. The event was graced by the presence of esteemed guests, including the college principal,

Dr. T H Jitha, and ANO (Associate NCC Officer) Lt. Akhil J., who proudly flagged off the rally. The initiative sought to instill a sense of environmental consciousness and responsibility among the participants and the community, fostering a collective commitment to safeguarding our oceans and the planet for future generations

To create awareness about Pokkali rice farming, Grass route organization, Nayarambalam has conducted Pokkali farming workshop in Sanjo Ecofarm Negugad. Students of Botany, NSS unit and Bhoomithrasena Club of SNM College, Maliankara sowed seeds in the rice field which was prepared by Rajagiri college of Social Science on 21<sup>st</sup> June 2022. Teachers and students participated in the programme and they had an opportunity to interact with well experienced farmers.

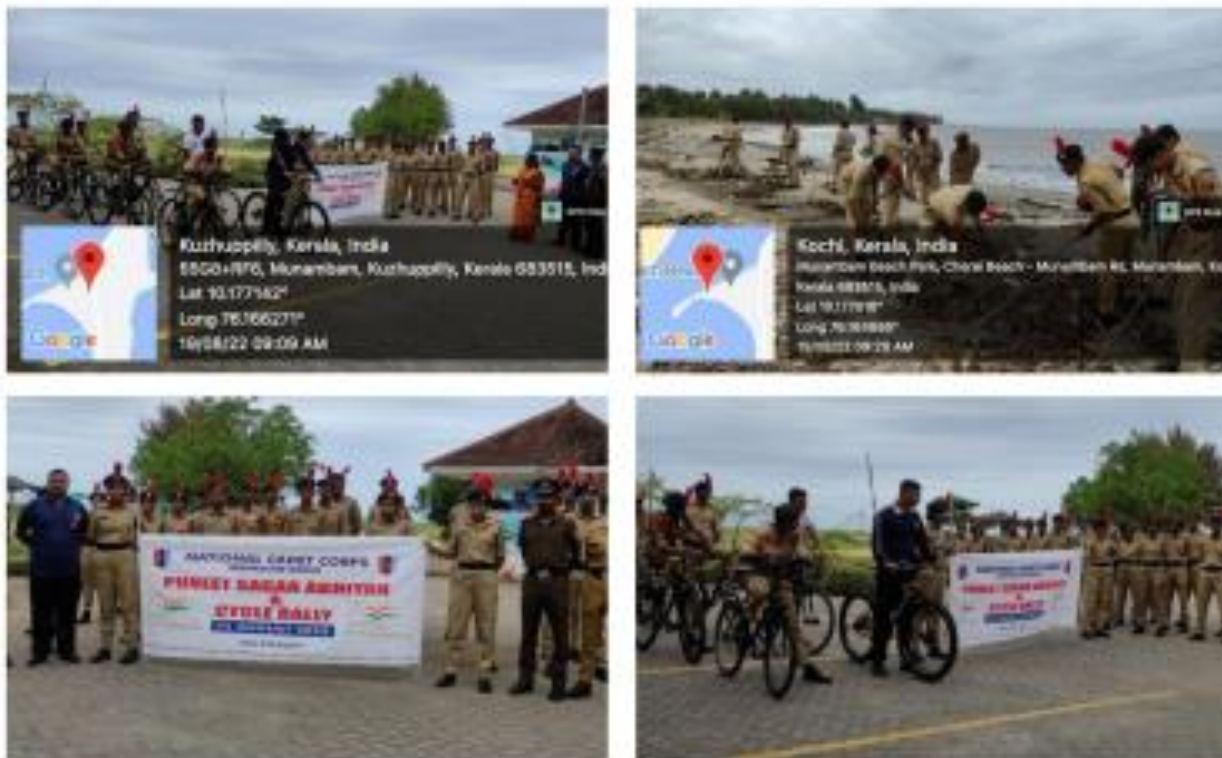
On 21st June 2022, the Grass route organization, Nayarambalam, took an important step in creating awareness about Pokkali rice farming by conducting a successful Pokkali farming workshop at Sanjo Ecofarm Negugad. The event saw enthusiastic participation from various educational institution SNM College, Maliankara and Rajagiri College of Social Science. The first part of the workshop was setting up of the rice field which was done by Rajagiri College of Social Science. The second step was initiated by SNM College, Maliankara, sowed the precious Pokkali rice seeds. Students from different departments especially Botany students, NSS unit members, and Bhoomithrasena Club students participated. This unique initiative allowed teachers and students alike to actively engage with experienced farmers, providing them with valuable insights into traditional rice cultivation techniques. Such endeavors play a crucial role in preserving and promoting sustainable agricultural practices while fostering a sense of appreciation and understanding for the age-old wisdom of seasoned farmers.





premises.

On August 19, 2022, in conjunction with the 75th Azadi Ki Amrit Mahotsav, the NCC unit of UC College Aluva organized a significant event named "PUNEET SAGAR ABHIYAN AND CYCLE RALLY" aimed at raising awareness about the crucial importance of the ocean. The event saw the presence of distinguished guests and officials, including Subedar Major Manoj, who played a prominent role in flagging off the cycle rally. Subedar Major Manoj's gesture symbolized the call to action in saving our oceans, urging citizens to take responsibility for preserving this vital ecosystem. The programme also witnessed the participation of Major Narayanan, ANO of UC College, Lt Akhil J, and PI staff from 22 K Bn. NCC, Eloor. Additionally, the event received valuable support from Shrimathi Ramani, a respected member of the Pallipuram Panchayat. The cadets actively contributed to the cause by cleaning the beach premises, further emphasizing the significance of protecting our marine environments. This collaborative effort successfully instilled a sense of responsibility and awareness among the participants and attendees about the urgent need to safeguard our oceans for future generations.



SNM College Maliankara NSS unit no 47 NSS volunteers participated in the largest coastal cleaning campaign at Kuzhupilly beach On 17th September 2022, NSS volunteers participated in the

largest coastal cleaning campaign at Kuzhuppully Beach. The program was conducted with the presence of Kerala Governor, ARIF MOHAMED KHAN, and thousands of people. The program was jointly organized by NSS, NCC, and various program coordinators. The program began early in the morning, with volunteers from NSS, NCC, and other organizations coming together to participate in the cleaning campaign. The volunteers were divided into groups and assigned specific areas of the beach to clean up. Each group was provided with necessary cleaning equipment such as gloves, masks, and bags. The program was inaugurated by the Kerala Governor, who gave a speech about the importance of keeping our beaches and oceans clean. The program coordinators, including NSS and NCC officers, provided guidance and support to the volunteers throughout the campaign. They ensured that the cleaning process was carried out safely and efficiently. The volunteers worked tirelessly throughout the day, collecting plastic waste and other debris from the beach. The massive turnout of volunteers ensured that the entire beach area was thoroughly cleaned.



On September 17, 2022, a dedicated beach cleaning programme titled "SHUCHITA THEERAM, SURAKSHITHA SAMUDRAM" was conducted at Cherai beach. The event, organized in collaboration with Haritha Karma Sena, NCC unit of SNM College Maliankara, and SNVHSS 10 Nandyattukunnam, aimed to promote cleanliness and safety of the ocean. The programme commenced at 7 AM, with a total of 30 SD (Senior Division) and 20 SW (Senior Wing) NCC cadets participating actively. Under the able guidance of our ANO (Associate NCC Officer) Lt Akhil J, and with the assistance of two PI staff from the 22 K Bn. NCC Eloor, the cadets enthusiastically



cleaned the beach premises. Their efforts not only enhanced the cleanliness of the coastal area but also raised awareness about the importance of preserving our marine ecosystems. This collaborative initiative instilled a sense of environmental responsibility and community engagement among the participants, setting a positive example for others to follow in keeping our beaches and oceans pristine and safeguarded.

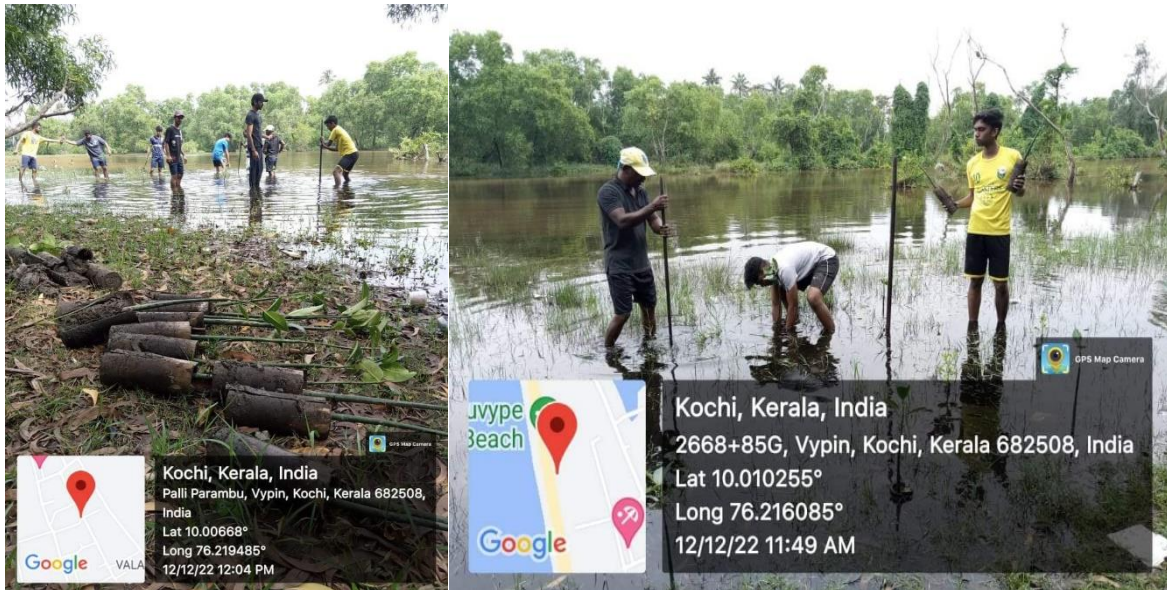


SNM College Maliankara NSS unit no 47 NSS volunteers planted more than 400 mangroves in Malipuram beach complex on 12/12/2022. The program was held in the leadership of NSS unit, Botany department of SNM College and M S Swaminadhan research foundation. The program was conducted in the presence of Botany department professor Adhithyan, NSS programme officer Vipin KD, NSS secretary Athul Krishna, Swaminadhan research foundation project coordinator Prajeesh Parameshwaran, Kufos farm suprenent Ragurag, Representative of MSSRF and other NSS volunteers. Planting more than 400 mangroves is a commendable effort which shows the dedication towards environmental conservation. It's wonderful to see different organizations and individuals coming together for such initiatives.

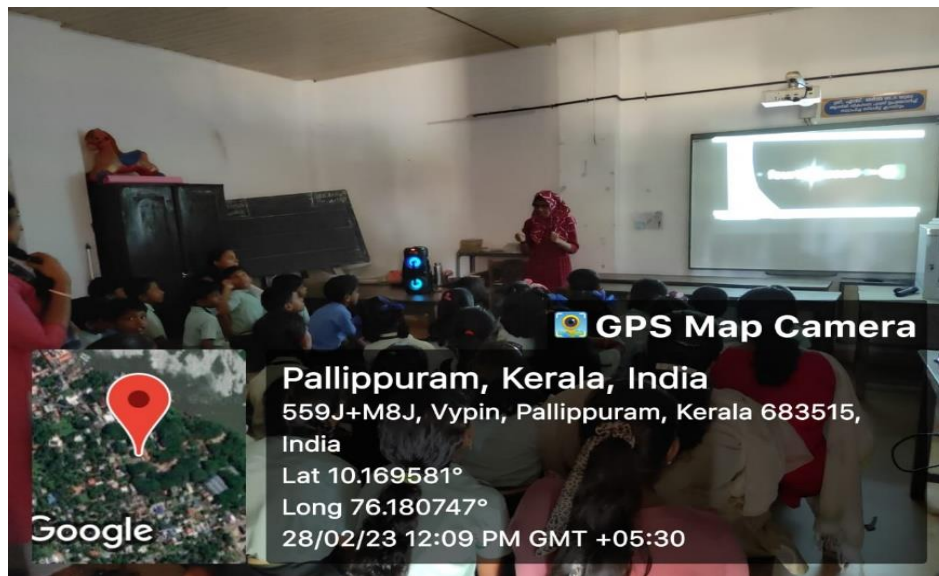


The presence of Botany department professor Adhithyan, NSS program officer Vipin KD, NSS secretary Athul Krishna, Swaminadhan Research Foundation project coordinator Prajeesh Parameshwaran, Kufos farm superintendent Ragurag, and representatives from MSSRF highlights the support and involvement of key individuals in the program. Mangroves play a crucial role in coastal ecosystems, providing various benefits such as protecting shorelines from erosion, serving as a habitat for diverse marine life, and contributing to carbon sequestration. By planting mangroves in the Malipuram beach complex, the NSS volunteers have contributed to the conservation and preservation of the coastal environment. Such initiatives are important for raising awareness about environmental issues and promoting sustainable practices. The efforts of the NSS unit and the collaboration between different organizations are commendable and serve as an inspiration for others to take part in similar activities





As a village adoption programme, Dept. of English initiated an awareness class with the objective of boosting the communication skills, creating awareness on energy conservation measures and environmental conservation. Our target was the development of the students of rural area (ward 1) through improved output.



As part of Energy 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. The students actively participated in the session. It is the decision and practice of using less energy. Small tips and hints are given to them in order to control the wastage of energy. They participated in the quiz activity given to them. In addition to this, an interactive session was conducted to clarify the doubts of students.

An awareness class on environment protection was organized for the students of SNMLP School Maliankara on 3rd March 2023 at 2 PM. The class was conducted by a group of 3rd-year B.Sc Mathematics students, namely Ashapriya P A, Nikhisha M N, Aryananda T S, Aleena P A, and Sandra



Santhosh, under their leadership. The session covered a wide range of subjects, including the significance of reducing plastic production, proper disposal of plastic, waste segregation, water pollution, water conservation, drought prevention, protection of plants and trees, ensuring future survival, and maintaining cleanliness in school and home surroundings.



The students delivered the content in an interactive manner, using chart paper, baskets made from waste plastic pens, and flowers made from plastic covers to engage the children. Through singing, playing games, and dancing, they created an enjoyable and interactive learning environment. The children actively participated in the class, showing great interest in the topics discussed.

Mangroves are salt-tolerant trees and shrubs that have flourished in the intertidal areas of sheltered shores, estuaries, and mudflats of tropical and subtropical regions. As part of village adoption programme, department of Botany conducted conservation and restoration activities on Sathar Island. On 27th March 2023, a field trip was conducted. This programme was started in 2016 and since then, every year we have been visiting this area with our students to plant new saplings of mangroves. To ensure a survival rate of

new saplings, we used to plant them every year and monitored the conditions of previously planted seedlings.



As part of village adoption activity the UG students of Department of Physics has distributed LED bulbs and paper bags to all members of Ward 1 & Ward II of the adopted village. Nearly 5 students participated in the activity under the guidance of Dr. Sunil Kumar C P, Assistant Professor, Department of Physics, SNM college, Maliankara. The activity was held on 19st April 2023. LED bulbs that were distributed were assembled by the students themselves during LED bulb making workshop that was conducted as part of energy conservation club activity in collaboration with NSS unit of SNM college, Maliankara. They also described to the members about the merits of using LED bulbs and the various ways of reducing power consumption. They have also made paper bags and have distributed the same to all nearby shops.



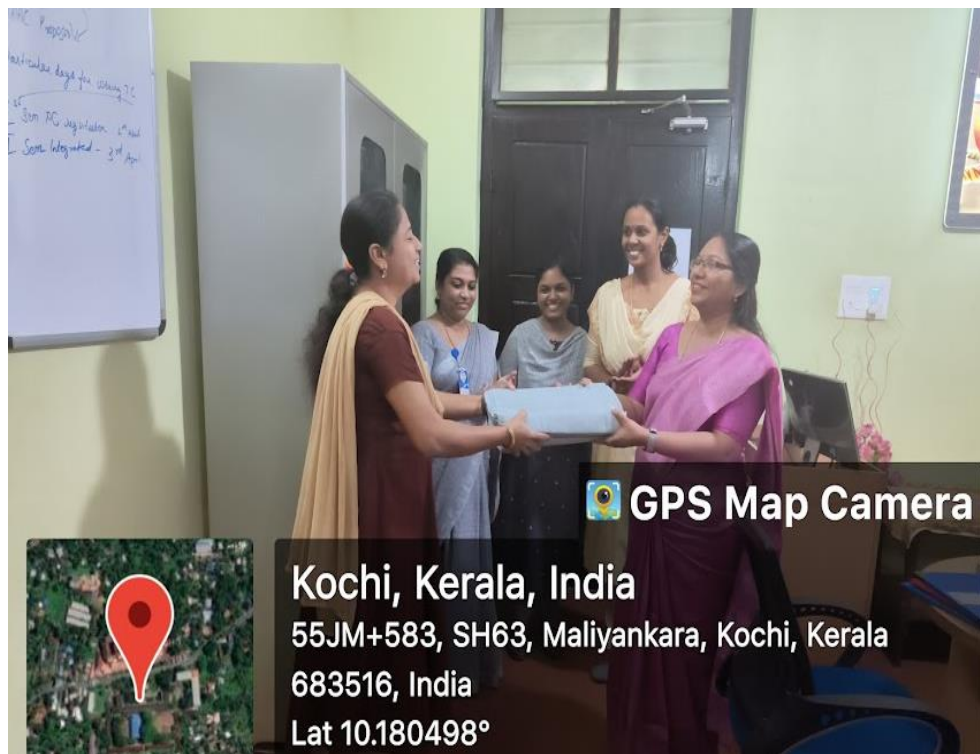
As part of the Village adoption program, the Department of Economics organized a webinar on the topic ‘How to convert organic waste to manure’ on 31st May 2023 for Kudumbasree units of Vadakkekara Panchayat in the online platform Google Meet. Sri. Nikhil M B Head of the Department presided over the function. The resource person was Sri. K Balan, Retd. Agricultural officer, Thooneri of Kozhikkode 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. Ten Kudumbasree members, six teachers, and forty students participated in the program. The webinar was followed by a question-answer session. The program started at 4.30 pm and came to an end by 5.30 pm. The program was recorded and uploaded to the department’s you-tube channel. The recorded video link has been uploaded to the WhatsApp group of kudumbasree workers.

[https://drive.google.com/file/d/1aRxo\\_4Xzs7TakQ-UxnWobRnwd33Cfz59/view?usp=drive\\_link](https://drive.google.com/file/d/1aRxo_4Xzs7TakQ-UxnWobRnwd33Cfz59/view?usp=drive_link)





As part of the village adoption programme, the Department of Zoology organized a meaningful activity on March 31, 2023, which involved the distribution of cloth bags to residents of Ward I & II. The initiative aimed to promote sustainable practices and reduce the use of plastic bags, contributing to a cleaner and greener environment. During the event, Shahmol, a member of Ward I, received cloth bags on behalf of the community from Dr. Jitha T.H, the esteemed principal of SNMC Maliankara. The programme's success was evident with the presence of the department's coordinator for the village adoption programme and other faculties from the Department of Zoology, who actively participated in the meeting. This collaborative effort demonstrated the commitment of the institution and its faculty towards community welfare and environmental conservation. By providing cloth bags, the department empowered the local community to adopt eco-friendly habits and furthered the cause of sustainability in the region.



### HARITHA KARMA SENA – Green Army

The Haritha Karma Sena was formed as a part of SAAKALYA 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. The volunteers had taken the pledge that the sena will keep the surroundings clean.

SNM College Maliankara NSS unit no 47 conducted a cleanliness drive at Moothakunnam temple on 8th February in association with Haritakarma Sena as part of the temple festival. The NSS volunteers removed plastic waste from the festival grounds as per green protocol during the Moothakunnam festival. The volunteers were divided into different groups to remove the garbage from the festival grounds.

The cleanliness drive was conducted under the leadership of Vaddakekara Panchayat President Mrs. Resmi Anil Kumar, Vice President V.S. Santhosh, NSS Program Officer Dr. V.C. Resmi, NSS Secretaries Meenakshi Sunish, Athul Krishna and Sethu Lakshmi. The volunteers collected and disposed of plastic waste from the festival grounds. The volunteers worked tirelessly to make the ground clean and tidy. The volunteers were appreciated for their efforts in keeping the festival grounds clean and green. The drive was a success, and it played a significant role in spreading awareness about the importance of cleanliness

and maintaining the environment.



On March 29, 2023, the NSS Unit 47 of SNM College Maliankara enthusiastically participated in the "Clean Muziris" program, which was organized as a part of the Muziris Fest held in Muziris. The event garnered significant support and involvement from various dignitaries and community leaders,



including Vadakekkara Block Panchayath Vice President, Shri. Saneesh, and Block Panchayath President, Resmi Anilkumar. Haritha Karma Sena members, SNM College Program Officers, Dr. V.C. Resmi, and NSS Secretaries, Athulkrishna and Sethulakshmi, were also present, providing guidance and support throughout the initiative. The enthusiastic NSS volunteers were divided into groups and assigned different areas to clean. With dedication and commitment, they collected and disposed of the garbage following the green protocol, promoting eco-friendly practices in waste management. The collective effort of the participants not only contributed to enhancing the cleanliness of Muziris but also exemplified the spirit of community service and environmental responsibility. This successful collaboration between SNM College Maliankara NSS Unit 47 and various stakeholders highlighted the significance of collective action in creating a cleaner and greener environment for all.





Plastic waste, once discarded after serving its purpose, poses a significant environmental challenge as it never truly degrades and persists on the landscape for several years. Although plastic waste is mostly recyclable, the process of recycling often introduces harmful additives and colors to the products. This exacerbates the environmental impact, leading to more concerns about plastic pollution, especially in the selected wards where the problem is particularly severe. In response to this pressing issue, students from the B Sc program took the initiative to raise awareness among local residents about the detrimental effects of plastic on the environment. They actively engaged with the community, highlighting the importance of reducing plastic usage and promoting eco-friendly alternatives. Additionally, the students undertook a commendable effort by collecting plastic waste from the adopted wards and responsibly handing it over to a recycling unit located in Chendamangalam, North Paravur. This responsible action showcases the dedication and commitment of the students and the institution towards tackling plastic pollution and fostering a cleaner, greener environment for the future.





### III. Research

The research works carried out by faculty and students at institutions that allows them to gain a better understanding of specific environmental, economic, and social concepts that relate to today's sustainability challenges. These studies are performed by researchers from a variety of departments, including humanities, sciences, commerce, and management. According to Bhowmik, Research can expand current knowledge about sustainability issues and contribute toward the development of strategies to mitigate these problems. The increase of interdisciplinary work and strong faculty and student engagement will help to mitigating environment related issues and promote sustainability research. There are 57 students submitted dissertation related environment and its different aspects. 4 teachers and 11 research scholars of the college pursuing Ph.D in environmental concerned topics. All these indicate that research activities related to environment are promoted and well carried out in the campus as part of SAAKALYA.



## **Mou's in related to Green Initiatives**

In this academic year SNM College have Mou's with

- 1. Community Agrobiodiversity Centre, M S Swaminathan Research Foundation Puthoorvayal, Wayanad.** This Mou pertains for the documentation of Mangroves of Vypin island and for conducting public awareness programs.
- 2. Advanced Centre for Atmospheric Radar Research CUSAT, Ernakulam.** This Mou pertains to the installation of the Automatic Weather Station procured by the Advanced Centre for Atmospheric Radar Research in the campus for observing the weather parameters over Maliankara region.
- 3. Kerala University of Fisheries and Ocean Studies (KUFOS)**  
Department of Zoology with KUFOS : student Training , Graduate / Post Graduate Research, Student Internship in Microbiology, Marine Biology and Life Science
- 4. ICAR-Central Institute of Fisheries Technology (CIFT)**  
Student training / Post Graduate research in Bio chemistry and nutrition, Fishing technology, Information & statistics and Micro biology
- 5. Kerala University of Fisheries and Ocean Studies (KUFOS)**  
Department of Physics and KUFOS: Student Training , Graduate / Post Graduate Research, Student Internship in Biotechnology, Microbiology, Marine Biology and Biochemistry
- 6. Kerala University of Fisheries and Ocean Studies (KUFOS)**  
Department of Chemistry with KUFOS: Student Training , Graduate / Post Graduate Research, Student Internship in Biochemistry, Food Science and Biotechnology
- 7. Department of Botany & PVT Merit Bio Labs**  
Student Project and Internship in Microbiology
- 8. Aspire Greens** Dispose -off E-waste Material - MoU is facilitating collection, handling and recycling of e-waste
- 9. Green Land Eco Industries :** Dry Waste Collection and Disposal: MoU is facilitating collection, handling and waste
- 10. Department of Zoology & PVT Merit Bio Labs :** Student Project and Internship in Life Science

#### IV. Operations – Green policy

**operations** means everyday services college provide in order to continue functioning properly. Some of these actions include building construction and management, on- campus transportation, waste disposal, energy and water procurement, food system etc.College always focus on how it can integrate environmentally, economically, and socially beneficial practices into their everyday tasks. The strategies or policies adoptedby the college for environmental sustainability in the campus are follows,

##### 1. Restricted entry of Automobiles:

- To reduce emissions, the college encourages staff and students to use publictransportation, bicycles.
- All vehicles of college staff/ faculty members and students are mandated to carrya valid Pollution Under Control (PUC)certificate before entering the vehicle in college campus.
- Restricted entry of automobiles and its use inside the campus.
- Promoted the use of bicycles or battery powered vehicles in the campus.

##### 2. Pedestrian-friendly pathways:

- The Institution has Pedestrian Friendly Pathways for the safe and easy movementof Staff & Students in the campus.

##### 3. Ban on use of Plastic: Waste Management

- The college has been aimed to achieving a plastic-free campus.
- For maintain our achieving plastic free campus provides dustbins and signboards.
- In the college campus there is separate waste bins to collect plastic waste and foodwaste.
- Food waste collected and used in biogas plant to produce energy for cooking in thecanteen.
- Students of S.N.M college, especially members of Haritha Karma ensure greenprotocol in the campus and outside the campus.



## 5. Green campus:

- S.N.M college is a beautiful green campus. working to become more green institution by planting more trees both within and outside the campus.
- College has botanical garden, rare plants, medicinal plants, as well as fruit plants and trees to enrich its beauty and reduce the carbon footprint
- Students and staff actively organized and participate in a tree-planting campaign on and off campus.

## 6. Energy saving:

- College infrastructure is planned to get more natural sunlight to the classrooms.
- Create the habit of switching off lights and fans in classrooms and faculty cabins when not in use.
- Our college promoted the use of digital initiatives and e-learning and reduces use of hard copies. For conveying notices to teachers and students created WhatsApp groups.
- Students assignments are encouraged to be written on both sides of the A4 sheet to reduce paper consumption
- Promoted the use of LED light instead of fluorescent light.
- The college purchases only energy star rating instruments which save energy.

## 7. Noise pollution:

- Certain areas like library, reading room are declared as Silence zones and noise pollution is



kept to minimum on college campus.

- Various display boards have been placed in the library and other places for awareness to maintain silence in the college.
- The use of vehicle horns also restricted in the campus

## 8. Biodiversity:

- Display of environment protection banners, posters like save water, save energy at prominent places, waste disposal bins for wet and dry waste disposal bins for wet and dry waste disposal are some of the initiatives taken.
- Composting of biodegradable waste to be scientifically done.
- Rain water Harvesting (RWH) is to be done technically.
- The survey was focused on the diversity of plants, birds, animals on the basis of their classification.

## V. AUDITING

Auditing helps to track the progress in meeting the sustainability goals and compare our practices with others. These assessments also provide with the opportunity to share our best practices with key administrators, external partners, and other community members. Analysing the systems can help to plan where we have to go next and what the best steps could be for achieving the goals. In this academic year college IQAC initiated green and energy auditing with external agencies.

### **Evidence of success**

An awareness campaign for the plastic-free campus through signboards and display boards has made the campus almost plastic free. Through workshops/seminars/NSS/Nature Club, students are made aware of the importance of the environment and various environmental issues. The green campus initiative SAAKALYA developed by college helps not only to save the environment, but also adds to the beauty of the campus. Besides creating awareness among students and people, the plants are used for scientific studies. The college generally does not generate any hazardous waste in any manner. However, the college strives to generate minimal waste and tries to reduce the use of plastics whenever possible. Printer Cartridges are generally refilled and not disposed. Wherever refilling is not possible, the cartridge is returned to the manufacturer. Paper waste is sold off to vendors who send it for recycling. Through

community engagements are part of this programme nearby community also aware of the environmental issues in the present scenario.

## Challenges

Although it is very important initiative of the college integrate sustainability into their education, research, operations, and community partnerships, there are a lot of challenges in doing so. One of the greatest challenges for this programme is finances. If there is a minimal availability of funding from the government, then the college can take more steps to invest in more sustainable practices.

Another potential barrier is the fact that affiliating universities often rigidly structure their programs, leaving little room for interdisciplinary work and practical works.

## Conclusion

SAAKALYA is an important step in creating awareness about environmental sustainability to the students and community and also promote environmental protection activities. College is in the beginning stage of the programme so it is not able to cover all the measures in an appropriate way. But college has got a special opportunity to not only integrate green practices into their communities, but also contribute positively to their local and regional economy and the lives of nearby populations. S.N.M college Maliankara understand its responsibility for preparing students to live in the world as productive members of society who can contribute positively to the world. Environmental crises grow more complex every day, economic and social systems around the world are struggling, it is even more important for college to embrace sustainability, both because of the ability of the college to create and inspire change and because of the commitment in sending its students into the world to make a difference.

