

# BEST PRACTICE I

TITLE OF THE PRACTICE: VILLAGE ADOPTION PROGRAM

**“GRAMODHARANAM KALALAYA VIDYARTHIKALILUDE”**

The Village Adoption Programme has been implemented by the college by adopting WARD I and II of Vadakkekara 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 supports 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. 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 2021-22.

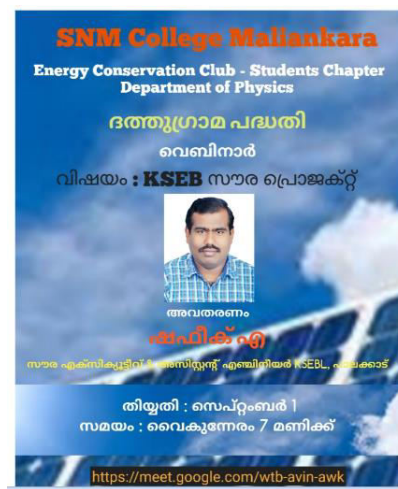
The inauguration of the activities of the village adoption programme of the academic year was done with the distribution of medical diagnostic kits to the ward members of the adopted ward 1 and ward 2 by the department of mathematics and statistics which was the joint initiative of the teachers and students of the aforementioned departments. Each diagnostic kit includes a blood pressure monitor, a glucometer, and a digital thermometer. It was a boon to the villagers as they were badly in need of medical assistance for the diagnosis and treatment of COVID 19.



On 10/08/2021 a webinar on "Covidinte moonam tharangavum prathirodhavum" by Dr.Amar.S.Fettle, Nodal officer , State Covid Cell was conducted for the members of kudumbashree units of the adopted wards which helped to create awareness among the villagers and to avoid panic situation.

On 18/08/2021 as part of the social responsibility and welfare initiative, the staff club members of the college provided financial aid to 50 covid patients of adopted wards which was a timely help as the covid pandemic had left them in financial crisis.

Energy conservation club- students chapter and Department of Physics jointly organized a webinar on the topic “KSEB Soura Project” on 1<sup>st</sup> September 2021. Mr. Shafeek A. (Assistant Engineer, KSEBL, Palakkad) was the keynote speaker. Main objective of this webinar is to create energy conservation awareness in the villagers. Recent trends in solar energy conservation were discussed in the webinar. In this webinar around 70 people from the adopted village has been participated.



The department of Botany planted sapling of mangroves in December with the aim of conservation of the mangroves which turned out to be great environmental protection initiative at Sathar Island, as part of the village adoption programme. A field trip was conducted on 18<sup>th</sup> December, 2021. 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. As the survival rate of new saplings are depending upon the prevailing conditions, we used to plant it every year. Many plants have attained a height of 4 ft.

Bio-fencing with mangrove plants is practiced by Sri. Francis, who is a fisherman of this locality. He has conserved many mangrove plants and apart from that, he has implemented the bio-fencing with mangroves, for the first time.





The department of English provided video lessons on ‘English in daily life’ during December for the kudumbasree members and their children as they have difficulty to learn English. The programme aimed to develop language skills among Kudumbasree members and their children from various units of the adopted village. The programme was organised during the month of December 2021. Ten students of BAEnglish Course were selected based on their language proficiency and mobile knowledge. With the help of Technology, the students prepared video lessons on different types of nouns really helpful for them.

<https://youtu.be/8Rq02aZENm4>

<https://youtu.be/08yJOsAiewc>



[https://youtu.be/q88B\\_OEMpnY](https://youtu.be/q88B_OEMpnY)

<https://youtu.be/IShd9knqoBk>

The department of Chemistry conducted soap making workshop for the kudumbashree units in January 2022 . The aim was to give training on how to make Soap using Natural coconut oil, water, caustic soda, colours and fragrances. The members who participated in the programme actively participated in the process of soap making. Soap making was a successful event and soaps were useful to cleanse hands during the time of pandemic.



As part of the Village Adoption Programme 2021-22 Department of Economics initiated vegetable seed distribution on 14 February 2022 among the Kudumbasree units of Vadakkekara Panchayat. Department started its village adoption programme in the academic year 2019-2020. Three Ayalkoottams in the Panchayat were selected namely Anugraha, Aiswarya and Bhagyalakshmi, which consists of 47 houses. On 23rd December 2019 the staff and students distributed vegetable saplings to these houses. In this academic year 2021-22, the staff and students of the Department of Economics visited the Ayalkoottams to take a follow up on the vegetable cultivation of the women in the nearby houses of SNM College, Maliankara. With the guidance of teachers, students conducted a survey among the villagers. They made an enquiry about different types of farming and the methods they adopted. They also studied how far vegetable farming helped them to meet their food requirements during the covid period. They examined the current farming status of the ward I of the Vadakkekara Panchayat. As the first phase of the programme was found to be a success the Department of Economics, SNM College Maliankara in association with Krishi Bhavan in Vadakkekara Panchayat conducted a seed distribution programme to promote farming in households and to make them self sufficient.







On 02/03/2022 , the commerce department conducted a seminar on “Investment awareness about post office savings’ for the kudumbashree members to encourage them to make small investments for their future.

The department of Zoology distributed N95 masks to the members of wards 1 and 2 respectively to ensure the safety and good health of the villagers which was the need of the hour.



The department of Malayalam gave a class on “ Thettillatha malayalam then malayalam” during the month of April. This class 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 college contributed to the wellbeing of the villagers of the adopted wards in the best way possible that too at the crucial time when the pandemic had badly hit the lives of the villagers.

### **PROBLEMS ENCOUNTERED**

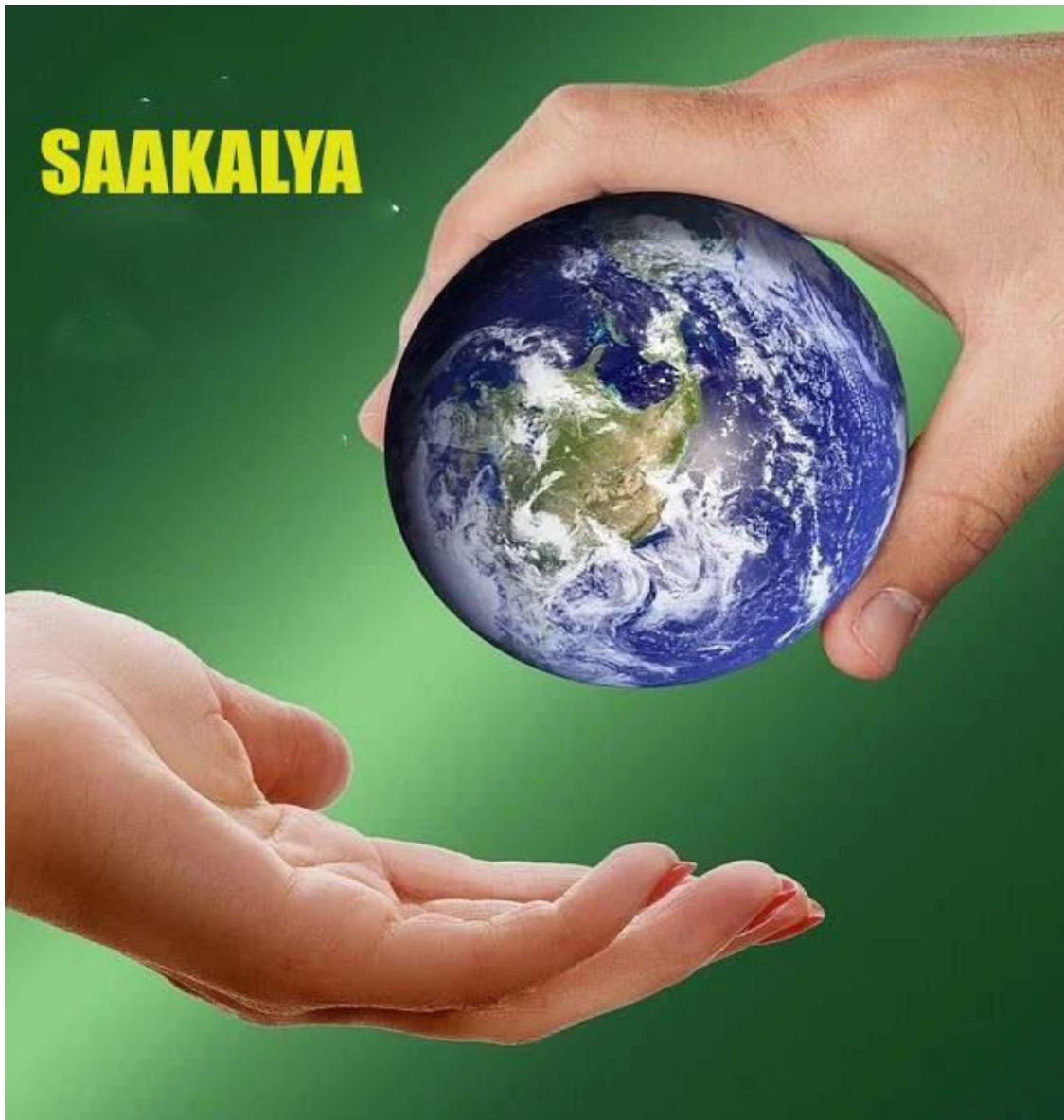
One of the main problems encountered is the lack of sufficient time to conduct activities due to the semester system and that too during the pandemic period. Another problem is the limitation of funds. Also we could not find collaborations for the programme as the pandemic has hit the industry and the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



## BEST PRACTICE II



### **Title of the Practice: SAAKALYA**

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

#### **THE CONTEXT:**

All living things in this world depend on the environment for their survival and well-being. A simple step towards protection of the natural environment around us can make a huge impact on the coming generations. It is the responsibility of the present generation to safely and securely hand over the nature to the coming generations because the coming generation deserves a good and healthy environment as much as we the present generation enjoying. Recently, environmental protection has become the most prominent topic all over the world. Conservation of the environment is significant because environmental degradation is

irreversible or may be very harmful to all animals, humans, or plants. As sustainability becomes increasingly relevant in today's world, Higher Education Institutions can play relevant role in creating a sustainable ecosystem through promoting environmental protection activities.

SAAKALYA- A green initiative of S.N.M College to save earth and protect environment through education, research, operations, community partnerships, and more. It is a special opportunity to integrate sustainable practices into community and inspire and prepare students, faculty, and visitors to make a difference. College always believes that it has a "moral responsibility" to promote sustainable practices because it provides education for the next generation of young adults who will be the carriers of environment in future. Environmental issues become more challenging and intensely rooted in our world each day, new generation with a knowledge of the world they live in, and will be faced with in coming years, become incredibly valuable assets to the world. Therefore, S.N.M College through SAAKALYA tries to strengthen environmentally-friendly practices and also to ensure that the students are educated about sustainability topics and understand how they can take action to protect environment.

#### **OBJECTIVE OF THE PRACTICE:**

- 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.

SI No	Name of the student	Project Title
1	Aleena Lenin	Preparation of bioplastics
2	Adithya K.S	Diversity of spider in Kuzhupilly beach
3	Anjitha M.R	Diversity of Spider in Vadakekkara panchayath Ernakulam Dist. Kerala
4	Anju T.R	Study of biodiversity of birds in Kolewetland, Thrissur, Kerala
5	Anoop O.P	Comparative study of molluscan diversity valappu and puthuvype beach by identification of shells
6	Archana P.U	Diversity of spiders in Cheriypazhampillithuruth,Chendamangalam Grama panchayath,Ernakulam,Kerala
7	Aswini M.T.P	Diversity of ants in SNM College campus, Maliankara
8	Anjitha M.R	Diversity of Spider in Vadakekkara panchayath Ernakulam Dist. Kerala
9	Greeshma C.D	Diversity of Butterflies in Methala Village
10	Krishnendu V.S	Vermicompost Efficiency and Quality of Vermicompost with different verm food as substrate
11	Nissy Jiju	Diversity of Spider in Panjipalla Puthenvelikara Panchayath,Ernakulam district,Kerala
12	Nayana C.A	The study of Biodiversity of mollusc in Fort Kochi beach
13	Rahmath K.A	Diversity of any collection in my locality Mattupuram village
14	Sandhra A.R	Invertebrate diversity at kottuvally panchayath
15	Sruthy A.S	Diversity of birds in Varappuzha Grama Panchayath
16	ALMA BIBIN	Comparative study of insect diversity in mangrove forest and sacred grove of Paravoor Taluk, Ernakulam, Kerala.
17	KARTHIKA P K	A comparative study of the ichthyo faunal diversity of two selected mangroves of Ernakulam district, Kerala.
18	RESHMA N S	A study of parasites that infest common edible fishes.
19	VINNI VARGHESE	Effect of temperature and volume of water on growth of tadpoles at Mattathur, Trissur, Kerala.



These are some of the projects undergone by our students from different departments in the academic year 2021-22.

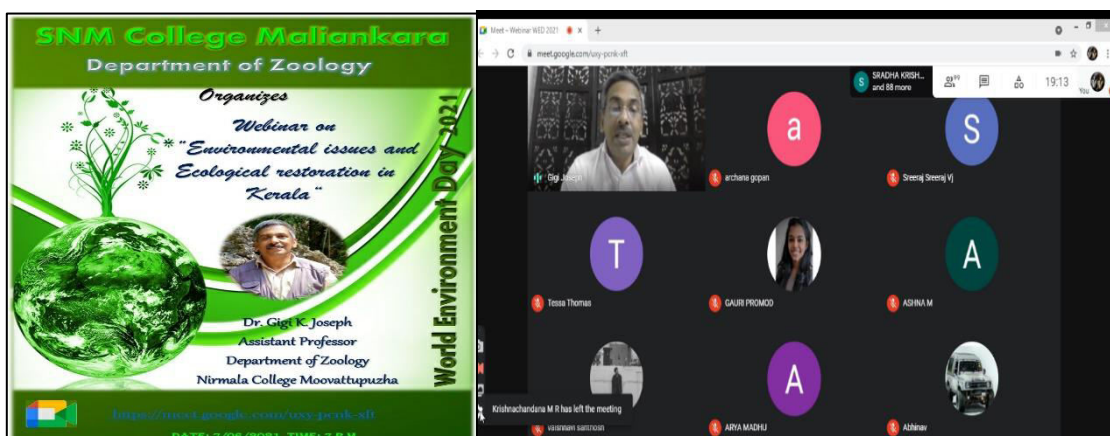
## II. Co-curricular ways to increase sustainability education

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.

- **Environment day celebration**

Bhoomithrasena Club conducted a state level webinar on ‘Aquatic Ecosystem Restoration’ on 9th June 2021. The programme was inaugurated by our college manager Shri M.R Bose and a talk was given by Dr. S. Suresh Kumar. World Environment Day is focused in the ecosystem restoration and its theme is “Reimagine. Recreate. Restore.”

Department of Zoology organised a Webinar on ‘Environmental Issues and Ecological Restoration’ based on the theme of this year through google meet. 100 participants were joined the webinar. The classes were handled by Dr. Gigi K Joseph, Nirmala College Moovattupuzha.



Dept. of chemistry organized a plant sapling program by students and teachers in their home place. Most of the students participated in this program and planted various plant samples.



Department of Physics observed Environment Day by conducting an interdepartmental Leaf Art Competition. Nearly 15 students from various departments of the college had participated in the event. The entry themes were versatile and the standards were well appreciated. It had exhibited the creative and perspective thinking of the UG as well as the PG students. Prizes were awarded as per the decision of judgement committee.



Research Department of Botany observed Environment Day by conducting Power point presentation and Mobile photography competition.



**S.N.M.COLLEGE,MALIANKARA**  
**Research Department of Botany**

**OBSERVANCE OF WORLD ENVIRONMENT DAY**  
**JUNE 5, 2021**

**PowerPoint Presentation**  
**&**  
**Mobile Photography Competition**

Environment day is celebrated to raise global awareness about the significance of healthy environment by implementing some actions to protect nature and earth, leading to a positive environment for all. This year the theme for World Environment Day is *Ecosystem Restoration*. Ecosystem restoration can take many forms: growing trees, greening cities, rewilding gardens, changing diets or cleaning up rivers and coasts. In this context, Research Department of Botany would like to conduct an online PowerPoint presentations and photography competitions for our students.

**Dr. Sanilkumar M.G.**  
(HoD, Dept. of Botany)

**Dr. Jitha T. H.**  
(Principal)

**Organizing Committee**  
**Dr. Baiju E.C.** (Assistant Professor)  
**Ms.Asha A.** (Assistant Professor)  
**Dr. Simi M.S.** (Assistant Professor)  
**Ms. Thushara V.S.** (II M.Sc Student)  
**Ms. Megha V.S.** (III B.Sc Student)  
**Nayana Sajeev** (III B.Sc Student)



**Stay Safe and Stay Healthy**

**Guidelines for Competitions**

Eligibility: UG and PG Students.  
Registration is free.  
Participation Link: <https://forms.gle/rPyWS4RqpyWc6tCR9>

**1. PowerPoint Presentation**

- Theme: **Ecosystem Restoration**.
- Medium of presentation can be English/Malayalam.
- Time limits: 10 minutes
- The participants are required to submit their PowerPoint presentations that contain a maximum of 8 slides.
- The content of the PowerPoint presentation should not be copied. If the contents from sources used, you must cite the references appropriately.
- Submit your PowerPoint to [snmcbotany@yahoo.com](mailto:snmcbotany@yahoo.com) on or before 5 pm on 3<sup>rd</sup> June 2021.
- The presentation of your PowerPoint will be through our LMS snmcbotany online platform on 5<sup>th</sup> June 2021 at 10.00 am.

**2. Mobile Photography Competition**

- Theme: **Biodiversity**.
- Submission should be through online mode only
- Photos submitted must be of good quality
- Photos must be in 'jpeg' format
- You are required to provide a unique title and description for the image.
- Submit your photographs to [snmcbotany@yahoo.com](mailto:snmcbotany@yahoo.com) on or before 5 pm on 3<sup>rd</sup> June 2021.

For more details  
**Dr. Sanilkumar M.G - 9446128243**  
**Dr. Baiju E.C. - 9447750443**

NSS and NCC observed **World Environment Day** by planting saplings.

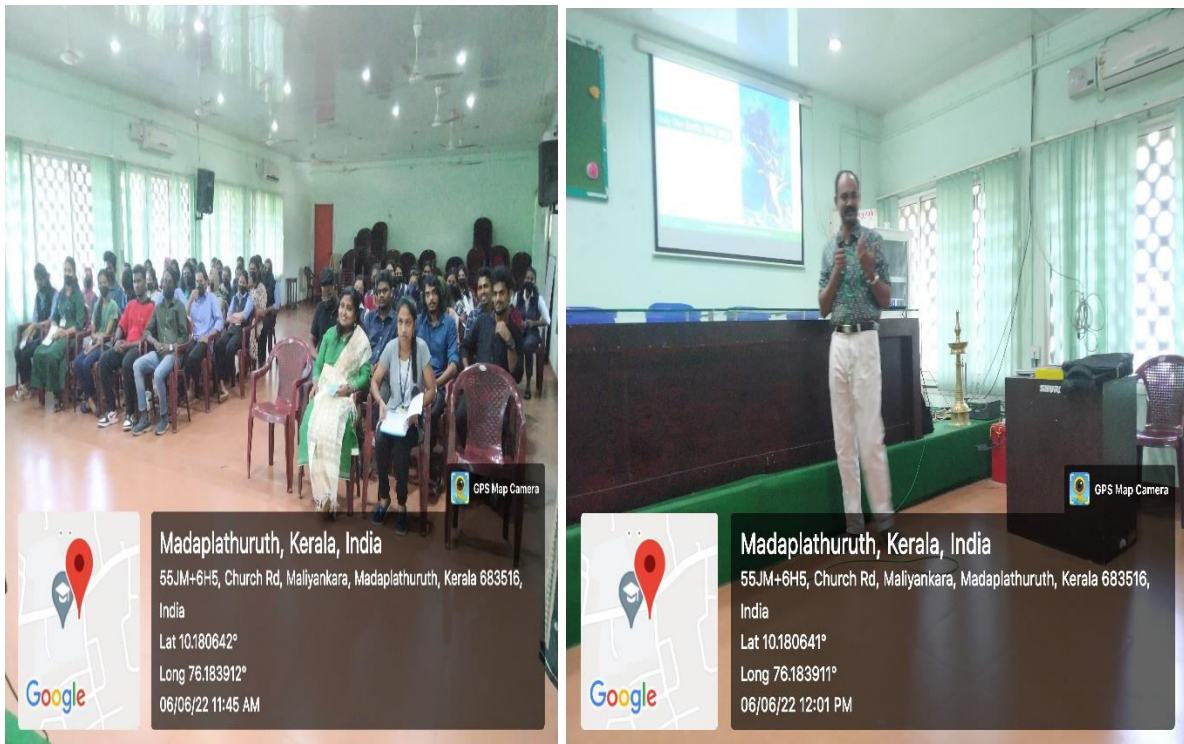


NSS prepared an animated awareness video about the significance of protecting our environment and shared through social medias and got a wonderful reach. Also volunteers

participated in a programme named 'BREATH' conducted by Sree Sankara college Kalady which was a one month program.

<https://www.instagram.com/tv/CPu4okThhSv/?igshid=YmMyMTA2M2Y=>

The Department of English celebrated World Environment Day on June 6<sup>th</sup> 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.



The Department of Economics organized Poster designing, slogan making and quiz competitions in connection with **World Cycling & World Environment Day** on June 3rd to June 6th, 2021. The competitions were conducted through the virtual platform of our College- SNMC Virtual Campus. E-certificates were given to all the winners.



- **World Population Day**

As a part of World Population Day, the department of Zoology organized a poster making competition for school students on 11<sup>th</sup> July 2021. Nandana Aneesh of class 7 SNHSS Pullamkulam secured first prize and Devanandha Shaju of class 8 SNMHSS won second prize.

- **National Nutrition Day**

In relation with National Nutrition Day, SNM COLLEGE NSS UNIT and ICDS NORTH PARAVUR jointly conducted POSHAN MAAH from 1<sup>st</sup> to 30<sup>th</sup> September for NSS volunteers. In accordance with program students were instructed to make sprouted pulses. NSS Volunteers secretary Shahir Mohamed T M instructed the volunteers. Programme officers Dr. V C Resmi, Sri. K D Vipin attended the program



**Poshan Maah 2021**  
1st to 30th September  
SNM COLLEGE, MALIANKARA  
NSS UNIT - 47

നാലാമത്ത് ദേശീയ പോഷണ മാസം പാലക്കാട് ജില്ലയിൽ ആദ്യമായി സംഘടിപ്പിച്ചു. അതിന്റെ ഭാഗമായി നമ്മുടെ സ്കൂളിലും സമാനമായി സംഘടിപ്പിച്ചു. അതിന്റെ ഭാഗമായി നമ്മുടെ സ്കൂളിലും സമാനമായി സംഘടിപ്പിച്ചു. അതിന്റെ ഭാഗമായി നമ്മുടെ സ്കൂളിലും സമാനമായി സംഘടിപ്പിച്ചു.

**MICRO GREEN**

വിത്തുവളർച്ച 10 ദിവസത്തോളം മാത്രം (പാൽവളർച്ച കൈകളാണ് 'മൈക്രോഗ്രീൻ.' ഒന്നോ രണ്ടോ ദിവസം പാൽ, ഉരുവു പൊടി, കടക് തുടങ്ങിയ വിത്തുവിത്തുവളർച്ച വളർത്തുന്നതിന് (ബ്രോയിംഗ്). അതിനു ശേഷം ഒരു നന്നായ തുണിയിലൊരു മാറ്റി ഒരു ദിവസം നമ്മുടെ സ്കൂളിലും സമാനമായി സംഘടിപ്പിച്ചു. അതിന്റെ ഭാഗമായി നമ്മുടെ സ്കൂളിലും സമാനമായി സംഘടിപ്പിച്ചു.

STARTING DATE 21/09/2021  
LAST DATE 28-09/2021  
ICDS, North Paravur.





- **World Water Day**



To focus the attention on the importance of freshwater and advocating for the sustainable management of freshwater resources, NSS unit No:47 observed world water day by making and distributing SAMBARAM in and around the college campus. It was a wonderful effort. We all know that to give a drop of water to a thirsty person is a Great thing.

- **Ozone Day celebration**

On behalf of the ozone Day 2021 The Bhoomithrasena Club and Dept. Of Zoology jointly conducted a webinar on the topic “Ozone –Earth’s Life Line”. The speaker was Dr. Manishankar Babu,, Assistant Professor Dept. of Botany, University College, Thiruvananthapuram on 16th September at 10.30 am. He spoke about ozone depletion and the ozone hole and other negative effects and also on the consequences of ozone layer depletion, greenhouse effect global warming and climatic changes. Nearly 80 participants were there in the programme.

As a part of Ozone Day (16<sup>th</sup>September), Department of Chemistry organized an interdepartmental Poster making competition through Moodle Platform. Theme for this competition is “**Keeping Us, Our Food And Vaccines Cool**”. Posters related to importance of protecting the nature and ozone layer, the effects of ozone layer depletion, climate change etc are posted in social media platforms for creating awareness to the public.

- **Observance of Gandhi Jayanthi -Cleaning of public places**

As a part of the observance of Gandhi Jayanthi, Students of S N M College cleaned college campus, their house surroundings and propelled the importance of Swach Bharath.



- **World Wetlands Day**

World Wetlands Day is celebrated each year on 2<sup>nd</sup> 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 department conducted a webinar on Wetlands Action for People and Nature on 5<sup>th</sup> February, 2022. The resource person was Dr. V.P. Syllas, Assistant Professor, School of Environmental Sciences, Mahatma Gandhi University, Kottayam. The programme was conducted through online. Our Principal Dr. Jitha T.H., inaugurated the webinar, Dr. MS Simi offered welcome speech. All faculty members have joined with a participation of 100 students. Dr. Syllas has emphatically talked about the current world scenario of wetlands, India and Kerala. A special reference has been given to Kuttanad wetlands.

- **International Day for the Conservation of Mangroves**

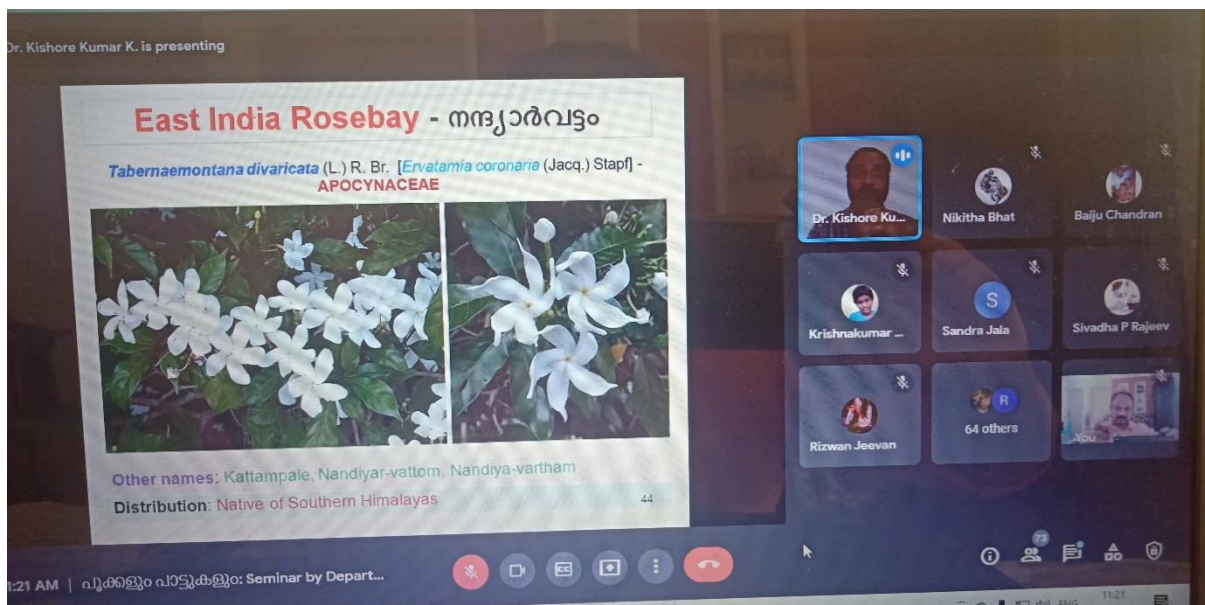
Painting competition on the theme 'Need of Conservation of Mangroves' to commemorate the International Day for the Conservation of Mangroves, on July 26, 2021.

- **International Day of Zero Waste**

International Day of Zero Waste is observed by Collectors @ College on 26 th July 2021 by conducting an online awareness class. The class was taken by Sri. Shine P H, District coordinator, Kerala Suichita Mission.

- **Kerala Piravi day**

The Department conducted a seminar on **Flowers and Songs (Pookkalum pattukalum)** on 4<sup>th</sup> November 2021, through Google meet as part of the Kerala piravi day commemoration. The resource person was Dr. K. Kishore Kumar, Head of the Department of Botany, Farooq College, Calicut. Our Principal Dr. Jitha T.H inaugurated the programme. Smt. Asha A, Assistant Professor offered welcome speech and Dr. E.C. Baiju introduced the speaker. The seminar was a wonderful experience in all sense. Dr. Kishore analysed the lyrics of Malayalam movie songs with related to Botany, especially flowers. 84 participants were attended the programme and all were excited as part of it. Dr. Simi MS conveyed the vote of thanks. HoD, Dr. M.G. Sanikumar and Guest faculties, Dr. Lakshmi and Smt. Anusree were fully engaged with this programme





Apart from Research and Development, Entrepreneurial plant science is providing a key role for students, who studies Botany. This include how new businesses are created using plant resources. Vast opportunities are there for the students of Botany. Students should acquire ability to merge skills and knowledge in a meaningful way. ie., converting botanical knowledge into a business idea that can be put into practice for earning a livelihood is the much-needed training for the students. Dr. Neelamathy, described various aspects of landscape designing, terrace gardening, mushroom cultivation, herbal marketing, herbal cosmetics, jungle jewels, flower arrangement, bouquet making, bonsai and so on. 94 participants joined and everyone was encouraged by her presentation

- **International Tiger Day**

On behalf of the International Tiger Day 2021, Bhoomithrasena Club conducted a webinar on the topic ‘Their survival is in our hands’. The speaker was Dr. Sapna Jacob Assistant Professor Dept. of Zoology, Payyanur College, Payyannur on 6th August at 10.30 am. She pointed that several countries taking measures to curb poaching, illegal wildlife trade, human-wildlife conflict, and habitat loss, etc, the tiger population 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. Nearly 50 participants were there in the programme.

- **Moon Day**

As a part of Moon Day, department of Chemistry, organized an interdepartmental Troll making competition through Moodle Platform. Theme for this competition is “**Life in Moon**”.

- **Wildlife week celebrations**

As a part of Wildlife week celebrations, the Department of Zoology organized Photography ( Theme : Birds in your backyard) and Painting contest (Theme : Wild and Water) on 7<sup>th</sup> and 8<sup>th</sup> October 2021.

## **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.

### **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. More than 40 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.

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

In this academic year SNM College have signed two 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.

Also through these Mou's, sharing of laboratory facilities for conducting high quality research in different aspects of botany became a fact.

#### **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 focuses on how it can integrate environmentally, economically, and socially beneficial practices into their everyday tasks. The strategies or policies adopted by 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 public transportation, bicycles.
- All vehicles of college staff/ faculty members and students are mandated to carry a 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 movement of 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 food waste.
- Food waste collected and used in biogas plant to produce energy for cooking in the canteen.
- Students of S.N.M college, especially members of Haritha Karma ensure green protocol 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 written in both side of the A 4 sheet to reduce paper consumption
- Promoted the use of LED light instead of fluorescent light.
- The college purchase only energy star rating instrument which saving the energy.

### **7. Noise pollution:**

- Certain areas like library, reading room are declared as Silence zone 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.

## Spider biodiversity in college campus



## V. 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.

- **MALIPURAM BEACH CLEANING**

In partnership with Kerala Forest Department, Social Forest Division Ernakulam, NSS unit SNM College cleaned Malipuram Beach by collecting the plastic wastes accumulated in the KATTADI plantation grown at Malipuram Beach. This program was inaugurated by college Principal Dr. T H Jitha. Assistant Conservator of Forest officer A Jayamadhavan, Ernakulam range officer M K Renjith, NSS Programme officers Dr. V C Resmi, Sri. K D Vipin, Deputy Rangers Srikanth, Forest officer Sreekumar took initiative on this program. Wastes segregated and disposed.



- **WASTE MANAGEMENT ASSESSMENT SURVEY:**

A waste management assessment survey was accomplished for North Paravur Municipal Corporation by NSS volunteers of SNM College Maliankara. That survey has been covered all houses of around 29 wards.

On the first day, Saturday (6-11-2021), around one hundred and ten NSS volunteers participated. Shyamala Govindan, Chairperson of the Health Standing Committee of Paravur Municipality, inaugurated the survey proceedings. City Councilor Jahangir, Health Inspector Jinci Lazar, Junior Health Inspector Anoop Kumar AM etc. gave necessary instructions to the students for conducting the survey. The students collected information about existing waste



management practices from every house in 29 wards. Around 8000 houses visited by NSS Volunteers and handed over the report to municipality.



- **KUZHUPPILLY BEACH CLEANING**

ON 28TH and 29TH December 2021, NCC cadets of SNM College Maliankara cleaned Kuzhuppilly Beach as part of “PUNEET SAGAR ABIYAN”. The program was inaugurated by the panchayath president Smt Ramni. The program was coordinated by ANO of SNM College Maliankara Lt Akhil J. 55 cadets were participated on the program.



- **DISTRIBUTION OF VEGETABLE SEEDS**

On behalf of Village Adoption programme on 14-02-2022 Department of Economics distributed vegetable seeds to Kudumbasree units of Vadakkekara panchayath in association with the Krishi Bhavan, Vadakkekara panchayath

- **RESTORATION OF MANGROVE**

Activities conducted for conservation and restoration of mangrove ecosystems at Sathar Island, as part of the village adoption programme convened by Department of Botany. A field trip was conducted on 18<sup>th</sup> December, 2021. 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. As the survival rate of new saplings are depending upon the prevailing conditions, we used to plant it every year. Many plants have attained a height of 4 ft.

Bio-fencing with mangrove plants is practiced by Sri. Francis, who is a fisherman of this locality. He has conserved many mangrove plants and apart from that, he has implemented the bio-fencing with mangroves, for the first time.



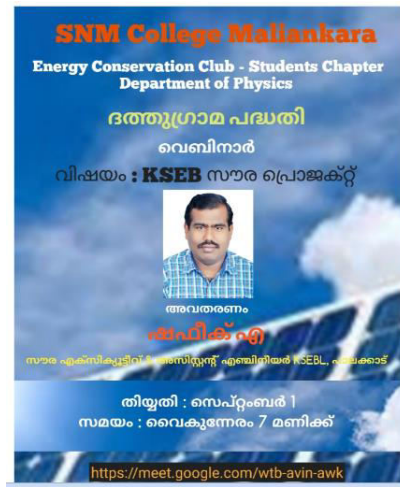


- **Webinar on KSEB Soura Project**

Energy conservation club- students chapter and Department of Physics jointly organized a webinar on the topic “KSEB Soura Project” on 1<sup>st</sup> September 2021. Mr. Shafeek A. (Assistant Engineer, KSEBL, Palakkad) was the keynote speaker. Main objective of this webinar is to



create energy conservation awareness in the villagers . Recent trends in solar energy conservation were discussed in the webinar. In this webinar around 70 people from the adopted village has been participated.



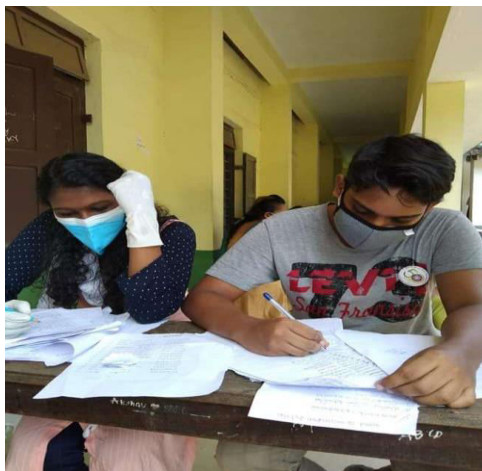
- **NAVAKERALA PURASKARAM**

In connection with NAVAKERALA PURASKARAM program NSS unit, SNM College Maliankara was invited for the inauguration of ‘PLASTIC KATHIKKARUTH KATHICH ROGIKALAKARUTH’ campaign of Ernakulam district. Honourable industrial Minister P Rajeev handed over the mission to NSS Program officer Dr. V C Resmi and Sri K D Vipin, NSS secretaries Shahir Mohamed T M and other volunteers . The mission was to give awareness to the people in nearby villages such as Vadakkekara, Chendamangalam, Paravoor, Eloor about the side effects of burning plastic.



- **COVID VACCINATION DUTY AT CHC MOOTHAKUNNAM:**

In times of covid pandemic situation SNM college NSS Program officer Dr. V.C. Resmi and NSS volunteer secretary Shahir Mohamed T.M. took up the mission of vaccinating the people to prevent the covid spreading with the help of other volunteers at CHC Moothakunnam. It lasted upto an YEAR. NSS Volunteers faced many challenges such as Unavailability of Transportation, Food etc due to LOCK DOWN in Kerala. But without considering this difficult situation SNM college NSS Volunteers Worked every day from 9am to 4pm some days it extended to 7pm. NSS Volunteers also worked even on Sundays and other holidays for Data Entry works. Our NSS Volunteers worked a lot to reduce this pandemic situation without considering their health and Life. For this efficient work collector awarded certificates for the students.



Our NSS  
Volunteers also



took part in daily data entry of covid test and also connected with covid patients through phone for knowing their current situation and details.

- **Seven Days NSS Camp : Punarjani**

As a part of seven-day camp Punarjani, NSS students had cleaned up the plastic wastes from the college surroundings and planted new saplings. Also, they took part in setting up of Garden and beautification of campus.

## **VI. 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. In next year onwards college decided to audit with external agencies.

### **Evidence of success**

Two Mou's with MSSRF and with ACARR, CUSAT and different community engagement activities are indication of success of the program SAAKALYA. Through workshops/seminars/NSS/Nature Club, students are made aware of the importance of the environment and various environmental issues. An awareness campaign for the plastic-free campus through signboards and display boards has made the campus almost plastic free. 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 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 epitome in perceiving knowledge about environmental unceasing among the students and community. We are bound to raise public awareness of the issue by promoting environmental protection activities. Our college is in the initiation level of this plan of action. So we are in the path to cover different deeds and procedures in a perfect way. Our focus areas are mainly local and regional population. We are able to come up with firmly to this community by integrating green practices. SNM College Maliankara acknowledges its leadership for moulding students to enhance their lives by contributing positively to the world. In today's complex scenario, environmental issues have to be dealt with much attention. It's the ability of the college to generate the needed changes as the economic and social system are in an endeavor to embrace sustainability. We are in the venture to reflect a difference in this community through our students.

