



TKM COLLEGE OF ARTS & SCIENCE

KOLLAM, KERALA - 691 005

(Aided by Government of Kerala & Affiliated to University of Kerala)

Re-accredited by NAAC with **A++** Grade



GREEN INITIATIVES

Prepared by IQAC, TKMCAS

December 2024



T.K.M. COLLEGE OF ARTS & SCIENCE

KOLLAM, KERALA - 691 005

Green Initiatives of TKMCAS



INDEX

SL. NO.	GREEN PRACTISES
I.	INTRODUCTION a. About the College b. Awards and Recognitions
II.	ENERGY USAGE AND MANAGEMENT a. Reduce energy consumption, especially of energy derived from fossil fuels b. Water conservation and management practices c. Waste management
III.	WATER CONSERVATION AND MANAGEMENT PRACTICES
IV.	WASTE MANAGEMENT
V.	BIODIVERSITY PARK
VI.	WASTE MANAGEMENT & RESTORATION ACTIVITIES a. Plastic Collection & Cleaning Drive b. Campus Cleaning c. Environmentally conscious Bookmark making event d. Student Presentation on - How to Eliminate Plastic from Your Life e. Workshop on eco-friendly crafts f. Eco-friendly crafts training session-I g. Eco-friendly crafts training session-II h. Eco-friendly crafts training session-III
VII.	GREENING THE CAMPUS a. Planting of trees in connection with world carbon conference b. Medicinal Garden Maintenance c. Fragrance d. More trees, more life campaign 2024



<p>VIII.</p>	<p>GREEN EXTENSIONS</p> <ul style="list-style-type: none"> a. Cleaning Drive - World Environment Day Observance, 2023 b. Swachhata pakhwada: Cleanliness drive in the catchment of Ashtamudi Wetlands c. Training to Wetland Mitras of Ashtamudi and Sasthamcotta Ramsar Wetlands d. Ecofriendly Bags making and Distribution e. Green Volunteers - Kerala School Kaloltsavam f. Sneharamumm g. Nature club - UN World Environment Day observance h. Kanivinte thanneer thadangal a Handwritten Magazine i. Agriculture Census j. Khadi Fest k. Swachhata Hi Seva 2023 – Garbage Free India
<p>IX.</p>	<p>GREEN FARMING</p> <ul style="list-style-type: none"> a. Crop Harvest from our Campus b. Koythulsavam c. Harvest and Sale of Mussels at Ashtamudi Lake
<p>X.</p>	<p>ENVIRONMENT CONSERVATION / AWARENESS PROGRAMMES</p> <ul style="list-style-type: none"> a. World Environment Day Observance - awareness talk on “Solutions for Sustainable Sanitation. b. International year of millets c. World Earth Hour Day –NCC d. World Environment Day -NCC l. NSS – UN World Environment Day Observance m. NSS- World Ozone Day



I. INTRODUCTION

The inculcation of green values in future generations is an urgent need today, as the environment is becoming increasingly fragile and environmental calamities are imminent. Realizing this fact, an effort to assess some key areas of a green audit, with the cooperation of students, has been initiated. As the current generation becomes more indifferent to the conservation of nature and energy resources, it is essential to build awareness and concern for nature and its resources, ensuring that the message of conservation is passed on to future generations. Colleges, being nurseries of awareness and responsibility, can play a crucial role in addressing this issue. As part of the self-assessment of the institution's efforts in conserving nature and energy, a Green Audit can serve as an effective tool. The audit will help identify gaps and allow for necessary steps to resolve these issues. It is hoped that this initiative will raise awareness among teachers, students, and the public, promoting values of conservation, sustainable development, and spreading the message.

a. About the College

T.K.M. College of Arts and Science was founded by the late Janab Thangal Kunju Musaliar in 1965. From its inception, the college has aimed at serving the socially and economically disadvantaged sections of society, with a special focus on the region in which it is located. For half a century, the institution has rendered glorious service, producing brilliant alumni who have attained positions of eminence in business and industry, government service, and private enterprise around the globe.

The college has a glorious history of 55 years of academic excellence. It celebrated its Golden Jubilee in a grand manner during 2015-16. The highlights of the celebrations included the National Scientific and Cultural Expo, the likes of which the city of Kollam had never seen before, international conferences, seminars and workshops, visits from eminent personalities both within and outside the community, including Nobel Laureate Ei-chi-Negichi, writer Jaisree Mishra, and Padma Shri Thanu Padmanabhan. Other highlights included the Golden Jubilee Lecture Series, medical camps, adoption of cancer patients, the erection of the Golden Jubilee Gate, and the gifting of houses to the homeless.

Today, T.K.M. College of Arts and Science is a leading arts and science institution in Kerala, reaccredited by NAAC with an A++ grade. The college offers 10 undergraduate and 6 postgraduate courses, catering to the needs of its students, 75% of whom are girls and 60% of whom come from SC/ST/OBC categories. The college ensures that about 70% of its students receive scholarships from various sources. Three of the college's departments have been reorganized as Research Centres of the University of Kerala. The departments of Physics, Chemistry, and Mathematics are funded by the Department of Science and Technology (DST), Government of India, under the FIST scheme.



b. Awards and Recognitions





Haritha Keralam Mission

Certificate



TKM College of Arts & Sciences hereby certified as GREEN INSTITUTION for imparting the culture of environmental conservation to the society. This Institution has secured A+ GRADE in demonstrating exemplary and efficient practices adhering green protocol in the fields of waste management, water security, energy and biodiversity conservation in this campus.

Congratulations

Dist. Coordinator
KOLLAM Dist.



Dr. T.N. Secma
State Coordinator
Navakeralam Karmapadhati
Vice Chairperson, Haritha Keralam Mission

BSNL, Bhavan, Third floor, Uppalam Road, Statue, Thiruvananthapuram 695001
Phone : 0471 2449939, E mail : navakeralamgok@gmail.com, Website: nkp.kerala.gov.in



SUCHITWAMMISSION, KOLLAM

3rd FLOOR , CIVIL STATION P.O, KOLLAM PH: 0474-2791910

E-mail: tscklm@gmail.com, klmam@kerala.gov.in



CERTIFICATE OF AWARD

This is to certify that T.K.M College of Arts and Science has actively participated in the cleaning campaign conducted in Kollam District under Swachhta Hi Seva in the year 2017. The T.K.M College of Arts and Science has won **Best Performer Award in Swachhta Hi Seva Cleaning Campaign** in the District Level.

District Co-ordinator
District Suchitwa Mission, Kollam

District Co-Ordinator
Suchitwa Mission
Kollam



District Panchayat President
District Suchitwa Samithi

PRESIDENT
KOLLAM JILLA PANCHAYAT



ഫോൺ : 0474-2715780

കൊറങ്കര ഗ്രാമപഞ്ചായത്ത് കാര്യാലയം, കുറ്റിച്ചിറ
റ്റി.കെ.എം.സി. (പി.ഒ.), കൊല്ലം-691005

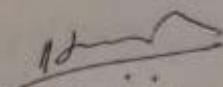
എച്ച്. ഹുസൈൻ
പെയർമാൻ
ക്ഷേമകാര്യ സ്റ്റാന്റിംഗ് കമ്മിറ്റി

ചാങ്ങിയിൽ റവീട്
പേരൂർ, കുറ്റിച്ചിറ T.K.M.C. P.O., Pin-691005
Mob : 9847354804
വാർഡ് XV (കൊള്ളി)

നമ്പർ 23.D/2020

തീയതി 16/07/2020

This certificate of recognition is issued to T. K. M. College of Arts and Science, Kollam for the excellent hard work and dedication put forth to implement the clean and green campus initiatives within and outside the campus by planting saplings, cleaning premises of college and Panchayath, effective measures for the removal of the plastic waste from the campus and producing eco friendly products


എച്ച്. ഹുസൈൻ
പെയർമാൻ
ക്ഷേമകാര്യ സ്റ്റാന്റിംഗ് കമ്മിറ്റി
കൊറങ്കര ഗ്രാമപഞ്ചായത്ത്
ഫോൺ: 9847354804



HARITHA KERALAM MISSION
Collectorate, Kollam – 691 013

S. Isaac
District Co-ordinator

Phone : 9188120322
email : harithakeralammissionkalm@gmail.com

Ref. No.HKM/Gen/10/2021

Date : 15.01.2022

TO WHOM IT MAY CONCERN

As a part of declaring Haritha Campus by Haritha Keralam Mission, TKM College of Arts and Science, Karicode, Kollam has successfully completed many activities on Environment protection. For processing bio-degradable waste, 'Thumpoormuzhi' model aerobic compost unit has been installed, all non bio-degradable waste including e-waste are regularly handed over to Haritha Karmasena of Kottankara Grama Panchayath for scientific processing. Rain water harvesting system has been established in the campus. Agriculture activities is initiated in all barren land of the campus. Medicinal and other trees are planted in the campus as a part of 'Pachathuruthi', a project of Haritha Keralam Mission. The campus has been declared as plastic free campus and they strictly follow 'Green protocol' by avoiding single used disposable items and use of other plastic items in the campus. By considering all the above activities TKM College of Arts and Science is selected for declaring 'Haritha Campus' by Haritha Keralam Mission. Hope to declare this institution as Green Campus by February 2022. We wish all the best for such an initiative especially by the Principal, Teachers, various club leaders, NSS team and all students.

A handwritten signature in black ink, appearing to be 'S. Isaac', located above the official title.

District Co-ordinator





NANMAMARAM GLOBAL FOUNDATION

KERALA
Mob: 9447019103

Reg: No: 201/2021

Patron: Smt. R Sreelekha IPS (DGP/ Rtd)

Advisory Board

- Sri. Lambodaran Vayalar MA LLB**
(District Judge/Rtd)
- Smt. S Lalithambika IAS**
- Sri. T K Jalaluddin Musaliar**
(Governing Body Member
TKM Institutions)
- Dr. Minu M Mathan**
MBBS. DNB. MNAMS
(Chalthanya Eye Hospital
& Research Centre
Thiruvananthapuram)
- Sri. Jacob S**
(State Chief Co-ordinator)

District Co-ordinators

- Sri. Swaminathan K**
Thiruvananthapuram
- Dr. Munthas Farriz Musaliar**
Kollam
- Smt. Jayarani Sebastian**
Pathanamthitta
- Smt. Mayabai K S** - Alappuzha
- Smt. Reji Jomi** - Kottayam
- Smt. K Thulasy** - Idukki
- Sri. Renjith Kumar G**
Ernakulam
- Smt. Vanaja A S** - Thrissur
- Smt. Padmasree. M S**
Palakkad
- Sri. Jafar Ali K K**
Malappuram
- Sri. Reeja M P** - Kozhikode
- Sri. Bavijesh R** - Kannur
- Sri. Abdul Asees K**
Wayanad
- Sri. C.V Ramesh**
Kasaragode

Ref No. Dated No. C/012/21

Date: 18/12/2021

CERTIFICATE

This certificate is proudly awarded to *TKM College of Arts & Science, Kollam* for their privileged and distinguished voluntary services in Kollam District on their environmental activity "Ecosystem Restoration" whose contributions have been, continue to be, essential to the reforestation, conservation and protection of endangered forests across world.

Shri. Jacob S
State Chief Coordinator

II. ENERGY USAGE AND MANAGEMENT

Priority is given to the most energy-efficient and environmentally sound appliances available on our campus, and only energy-saving light bulbs are used. Energy-efficient heating systems, with adjustable controls for individual appliances where possible, are installed, and appropriate instructions are provided to staff and students on how to use the heating controls. Staff, students, and conference guests are encouraged to save energy through visible reminders, incentives, and information to increase awareness. This mainly involves turning off electrical appliances when not in use.

a) Reduce energy consumption, especially of energy derived from fossil fuels

As non-renewable energy resources are depleting, energy management strategies are essential for the sustainability of the campus. To reduce electricity usage on campus during both on and off hours, the maximum number of LED bulbs and LED tube lights are used. Since the campus is located in a rural area, the majority of students use public transport, which helps reduce the use of natural fuel and carbon emissions. Most of the teachers use pooled cars or public transport for their commute to college.



LED bulbs and LED tube lights are in the campus office

Sensor – Based Energy Conservation: Sensor Based Light in disabled friendly washroom



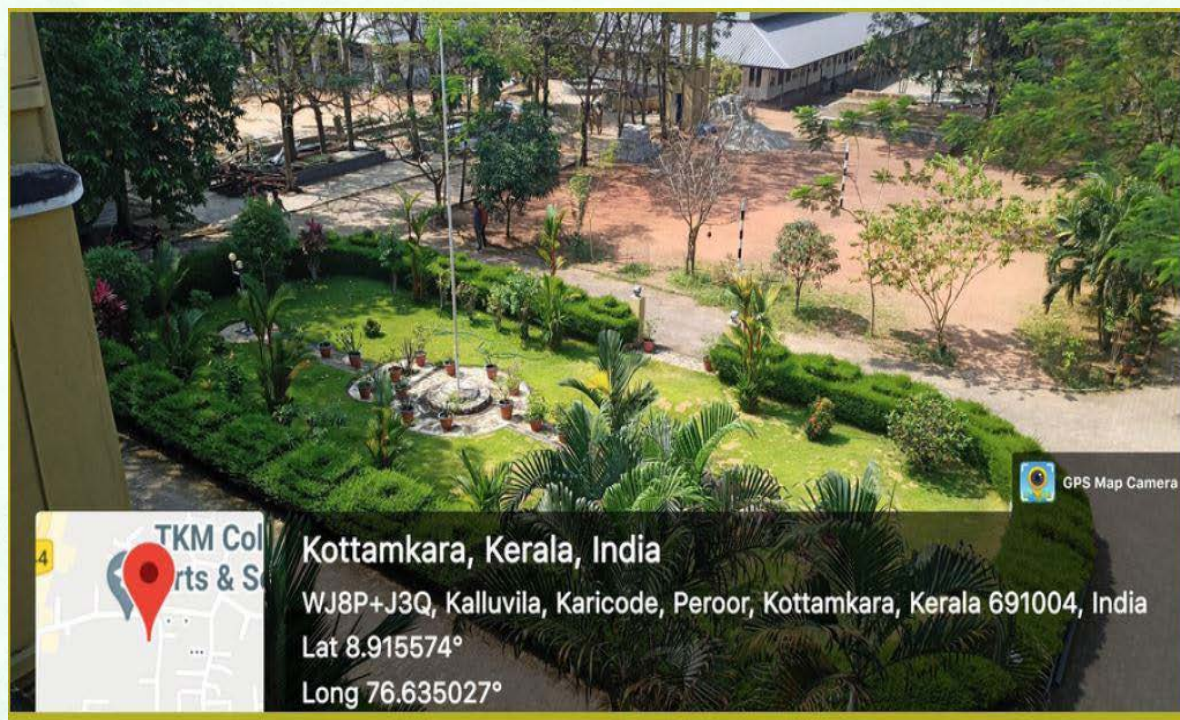
Sensor Based Energy System



Solar panel systems



Plastic Prohibition Sign Boards



Landscaping



The pedestrian ways are interlocked for better water holding capacity, in an eco-friendly manner



The roads are beautified with trees on both sides



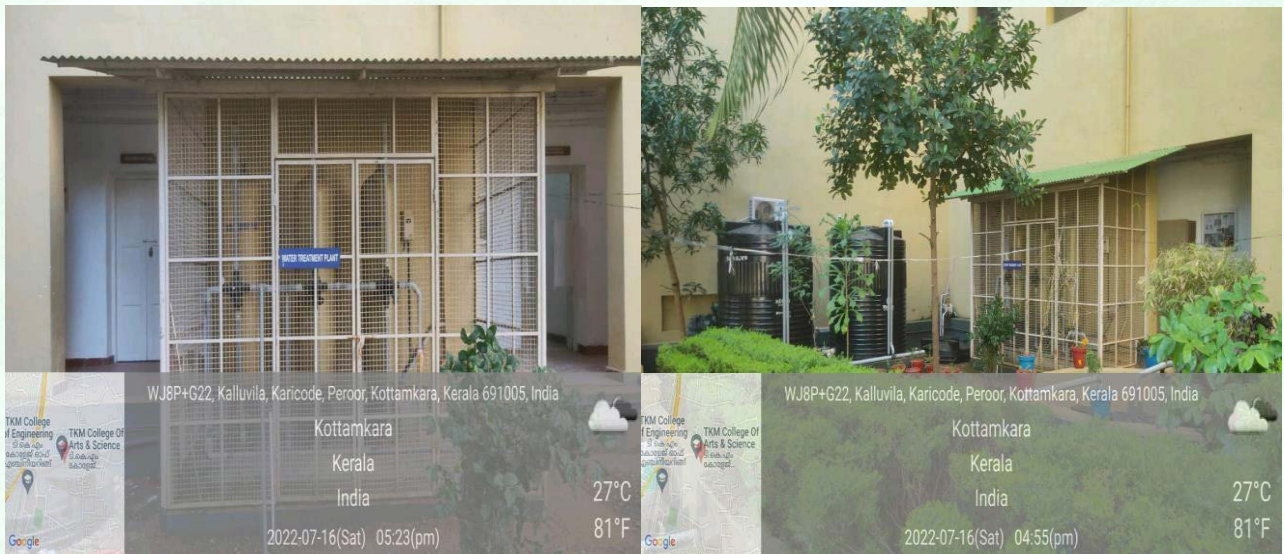
Pooled transportation used by teachers



Cycle expedition by students

III. WATER CONSERVATION AND MANAGEMENT PRACTICES

Our campus is self-sufficient in terms of water, thanks to effective management practices. We promote and encourage the limited use of water. The used water is recycled, collected in tanks, and utilized for gardening purposes. The campus is designed to retain maximum water, ensuring that there is no outflow of rainwater. As a result, the wells on campus remain sufficiently stocked with water, even during the summer season.



Water conservation and management Tanks in our campus



Rainwater harvesting wells within the campus



IV. WASTE MANAGEMENT

Solid wastes on campus have been identified as fallen leaves and degradable lunch wastes (wasted food). We have a pit for composting bio-wastes, which we use on a routine basis. Recently, as part of an initiative to reduce accumulated bio-waste, we have started advising students to bring food items only in the required quantity, which has proven to be very effective. Separate color-coded bins for different types of waste are placed on each floor and at key points throughout the campus to ensure proper collection and segregation of waste.



Separate colour coded bins for different types of wastes are for proper collection and segregation of wastes.

Vermicomposting units are established in the campus for disposal of biodegradable wastes generated through garden trimming and vegetable wastes from the canteen and hostel mess.



Fallen leaves are collected and placed in vermicomposting pit



Biogas plants have been installed in the campus to convert the food waste generated into Biogas



The college has taken initiatives to implement the segregation of solid waste and ensure that plastic waste is handed over for recycling and safe disposal, rather than resorting to the unhealthy practice of burning it or dumping it in public places or water bodies. The use of single-use plastic is strictly banned on the campus. The college follows a green protocol for all its official and public meetings, seminars, and conferences. Additionally, the college has established a plastic-free zone around the campus.



Waste segregation by green army students

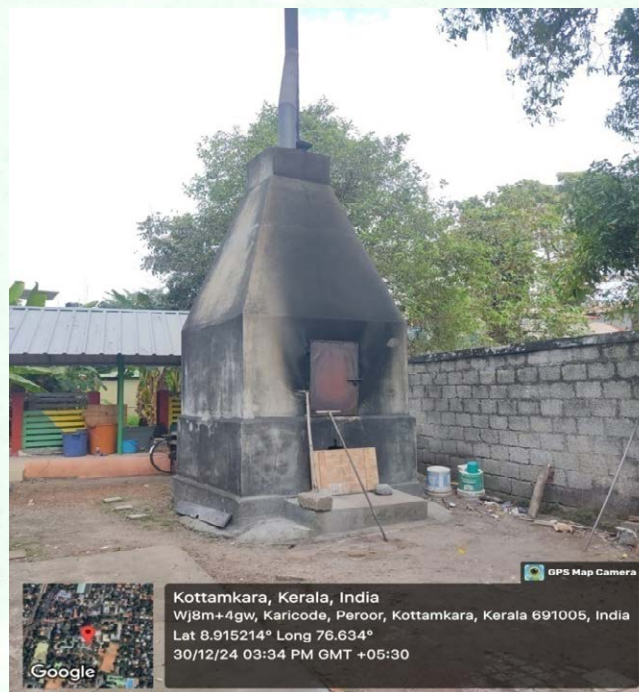


College has installed incineration unit in the campus for hygiene and proper sanitation

The use of single-use plastic is strictly banned on the campus. The college follows a green protocol for all its official and public meetings, seminars, and conferences. The institution has established a plastic-free zone around the campus. It also adheres to the 'Green Protocol' when conducting seminars and other events. Students and faculty are encouraged to use steel lunch boxes and steel glasses.



Thumbormuzhi Composting Unit



Waste Incinerator



V. BIODIVERSITY PARK

The Department of Zoology and Botany, in association with the Nature Club and Environmental Club, has joined hands to create and maintain a biodiversity park on the campus. This initiative aims to encourage participative learning and provide training in animal husbandry, pisciculture, cuniculture, and nursery maintenance, with the goal of inculcating an attitude of “earning while learning” among students. In addition to breeding and rearing fish, geese, ducks, doves, and budgies, the park also features a fern house, a garden of medicinal and ornamental plants, and a vermicomposting unit.



Trees (Neermathalam & Ampazham) with botanical name boards



Medicinal plants



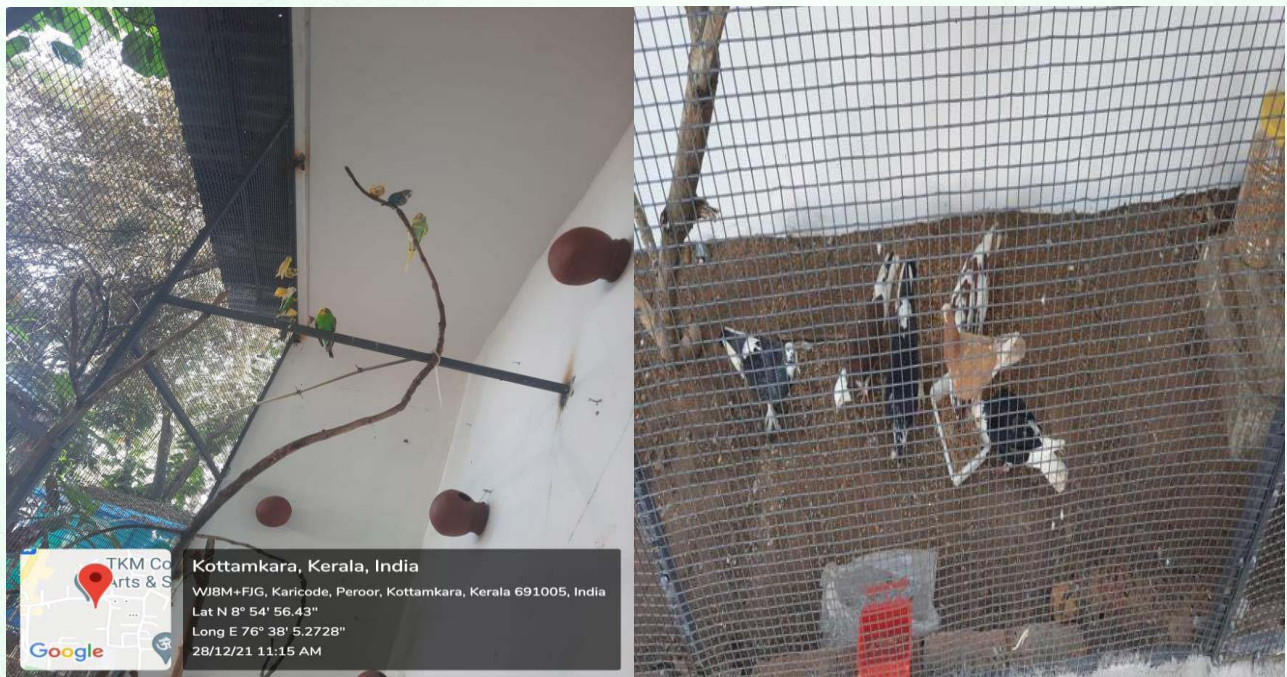
Ornamental Leafy plants



Flowering plants



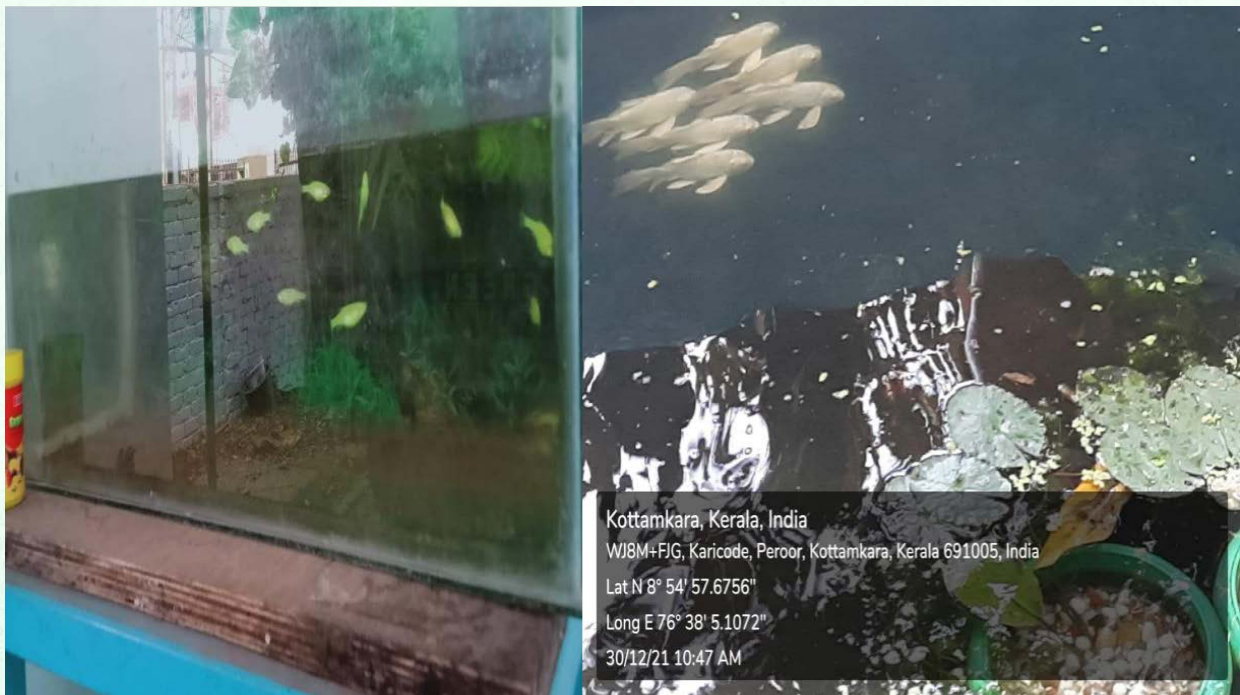
Fern house



Aviary



Pisciculture (Red tilapia/*Oreochromis* spp) culture in the garden with RAS System



Ornamental fish culture



Miona culture



Cuniculture



Goose and duck



Quill farming

Nature Assisted Class Room – ‘Padashala’

Outdoor learning offers significant benefits for student mental health and academic performance. Students are often calmer and better able to focus when learning in nature, and teachers experience improved behavior and social interactions with students.



‘Padashala’ – an open-air class room at biodiversity

VI. WASTE MANAGEMENT & RESTORATION ACTIVITIES

a. Plastic Collection & Cleaning Drive

Cleanliness and hygiene is something which even describes our own individual state of mind and how our character is. Not only the individual hygiene but also the cleanliness of our surroundings is necessary for better health of the entire public residing. So keeping this in mind our NSS unit had decided to clean the entire surroundings of our campus as well as from the karicode junction till our college.



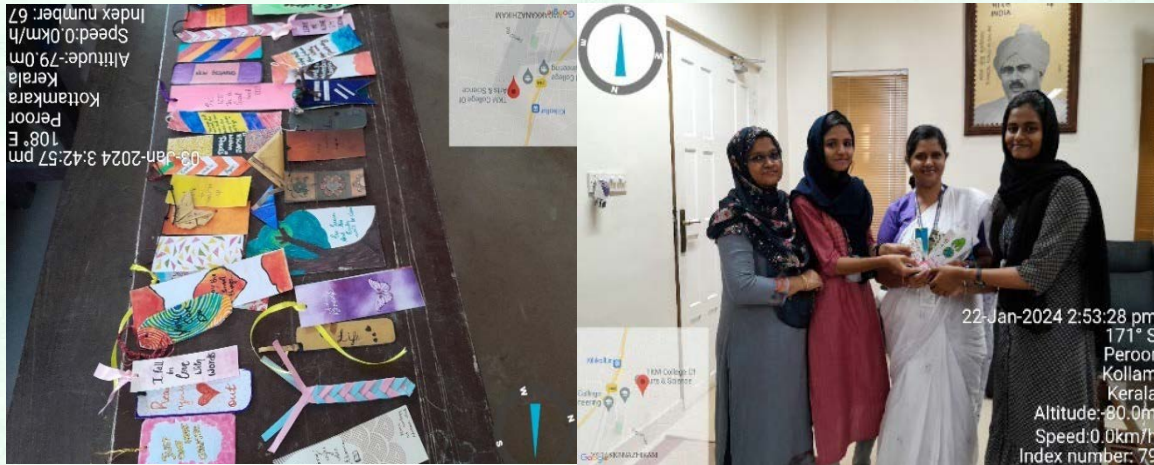
b. Campus Cleaning

As part of the regular activity session the volunteers reached the college at 9 am. Everyone was involved in the cleaning activities in and around campus. Moreover there were activities related to farming. Pepper plants were watered and weeds were removed.



c. Environmentally conscious Bookmark making event

The Nature Club of TKM College of Arts and Science in Kollam organized a creative and environmentally conscious bookmark making event aimed at promoting sustainability and raising awareness about the importance of nature conservation on 03-01-2024.



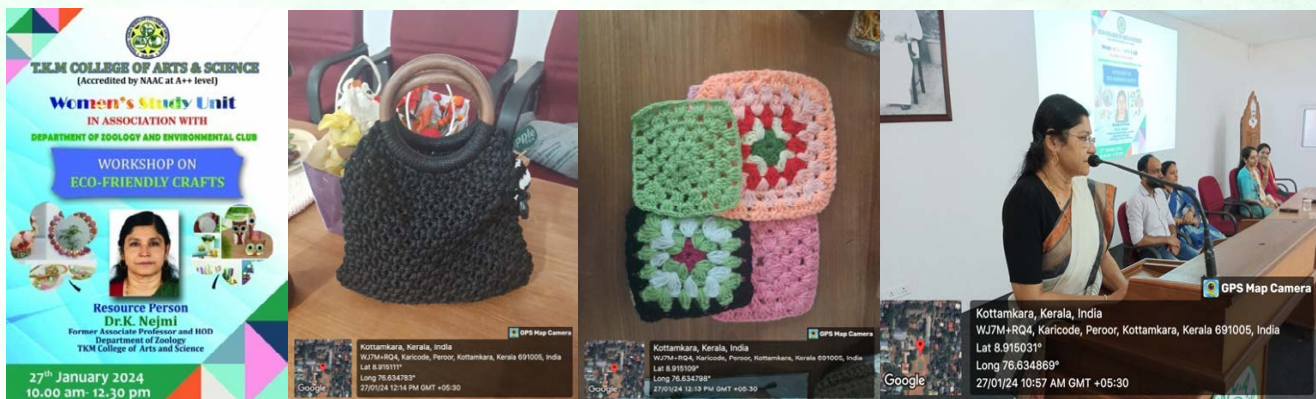
d. Student Presentation on - How to Eliminate Plastic from Your Life

The Nature Club of TKM College of Arts and Science in Kollam organized a creative and environmentally conscious bookmark making event aimed at promoting sustainability and raising awareness about the importance of nature conservation. Conducted a Student Presentation on the topic “How to Eliminate Plastic from Your Life” on 11-01-2024.



e. Workshop on eco-friendly crafts

The Women’s Study Unit in Association with the Department of Zoology and Environmental Club, TKM College of Arts and Science conducted a workshop on Ecofriendly crafts. The event was graced by the inaugural address of College Principal, Dr. Chithra Gopinath. Associate Professor and Former HOD of the department. Dr, K Nejmi, who was also the co-ordinator of the Women’s Study unit for thirteen years led the vibrant hands-on training workshop in which both faculty and students participated. Flower making using organte cloth, socks cloth and fancy paper , Bottle art, Painting using watercolour, oil painting, acrylic, fabric, glass painting and plate painting, Embroidery work such as hand embroidery, applique work, bead, sequence, glass and stonework, Muffler making , Crochet wor, Macramework, Papercraft, Cross stitch, Long stitch and Tailoring. The programme serves as a reminder that by applying some skills and recyclable materials creatively, we can make the make a green and eco-friendly place. This practice also helps students especially girls to find an easy means of income generation.



f. Eco-friendly crafts training session-I

The Women’s Study Unit in Association with the Department of Zoology and Environmental Club, TKM College of Arts and Science conducted training session on Ecofriendly crafts. Long stitch, Muffler knitting, Cross-stitch, Hand-embroidery.



g. Eco-friendly crafts training session-II

The Women's Study Unit in Association with the Department of Zoology and Environmental Club, TKM College of Arts and Science conducted training sessions on Ecofriendly crafts. Dr, K Nejmi, led the hands-on training workshop. The students were divided into four groups and given continuation training on 4 types of crafts which were discussed in the previous session- long stitch, Muffler knitting, Cross-stitch and hand embroidery.



h. Eco-friendly crafts training session-III

The Women's Study Unit in Association with the Department of Zoology and Environmental Club, TKM College of Arts and Science conducted training sessions on Ecofriendly crafts. Dr, K Nejmi, led the vibrant hands-on training workshop. The students were divided into four groups and given training on 7 types of crafts of which 4 were discussed in the previous sessions. The new topics discussed were: Ribbon stitch, Bead bracelet making, Crochet making (Introduction).



Kottamkara, Kerala, India
WJ8P+G22, Kalluvila, Karicode, Peroor, Kottamkara, Kerala 691005, India
Lat 8.916029°
Long 76.635127°
02/03/24 12:36 PM GMT +05:30



Kottamkara, Kerala, India
WJ8P+G22, Kalluvila, Karicode, Peroor, Kerala 691004, India
02/03/24 12:37 PM GMT +05:30

TK.M COLLEGE OF ARTS & SCIENCES
(Accredited by NAAC at A++ level)
Women's Study Unit
IN ASSOCIATION WITH
Department of Zoology and Environmental Club
ECO FRIENDLY CRAFT MAKING
TRAINING SESSION - III
Resource Person
Dr.K.Nejmi
Assistant Professor and HOD (Zoology),
Department of Zoology,
TKM College of Arts and Sciences
02 March 2024
10 am - 1.00 pm



Kollam, Kerala, India
WJ8M+FWM, Karicode, Peroor, Kerala 691004, India
Lat 8.915797°
Long 76.634955°
02/03/24 10:56 AM GMT +05:30



Kottamkara, Kerala, India
WJ8P+G22, Kalluvila, Karicode, Peroor, Kottamkara, Kerala 691005
Lat 8.916032°
Long 76.6351°
02/03/24 12:37 PM GMT +05:30

VII. GREENING THE CAMPUS

Due to constant efforts of NSS, Nature Club and Environmental Club, extensive tree planting drive is initiated in the campus. Hence a thick green canopy is extensively present in the campus. For improving the aesthetic value, a lawn with topiaries is maintained in front of the Chamber of Principal. The insitu conserved biodiversity area is having rich plantation and allowed to grow without pruning. Overall, the canopy of the campus serves as a mechanism for supply of ample amount of oxygen and utilization of carbon dioxide by carbon fixation.

a. Planting of trees in connection with world carbon conference

The Social Town Talk Series is back with its Sixth Edition: International Carbon Conference, supported by Neem Software organized an online conference that brought together a diverse group of stakeholders, experts, and leaders to talk about how we can tackle the global carbon crisis, switch to sustainable energy and save our planet's future in connection with ecosystem restoration, we planted around 150 fruit saplings were planted at the college campus. **Dr. Chithra Gopinath**, (Principal, TKMCAS) inaugurated the planting and also participated in the carbon conference webinar and received appreciation. Students were made aware of the importance of nature conservation and urged to identify individual roles in conserving nature and waking the public. 50 participants attended the programme. Distributed varieties included Saporta, Gauva, Gooseberry, Country gooseberry, Rambutan, Pomegranate, Mangoes etc.,





b. Medicinal Garden Maintenance

On June 6th, 2023, as part of the World Environment Day observance, first-year MSc students took the initiative to maintain the department’s medicinal garden. They dedicated their efforts to properly caring for the garden, replanting various medicinal plants, and cleaning the surroundings. This activity not only contributed to the garden’s upkeep but also reinforced the students’ commitment to environmental sustainability and the importance of preserving medicinal flora.



c. Flower arrangement-Fragrance

As an exhortation for the students, a flower arrangement-Fragrance 2023 was arranged in the department of Botany on 22/8/ 2023. The programme was inaugurated by the Principal Dr. Chitra Gopinath. Teachers from other departments were present on these occasions. The programme was a testimony of the creativity of degree botany students. It also helped the students to familiarised with seasonal/ natural flowers. Around 200 students and teachers visited the flower expo.





d. More trees, more life campaign 2024



**TKM COLLEGE OF ARTS AND SCIENCE
3 KERALA GIRLS BN NCC SW**

**More Trees, More Life
Community Outreach Programme
On 5th June 2023
At Kottamkara Panchayat**



**PRINCIPAL
DR. CHITRA GOPINATH**

**NCC COORDINATOR
CAPT. LIBY K.S.**

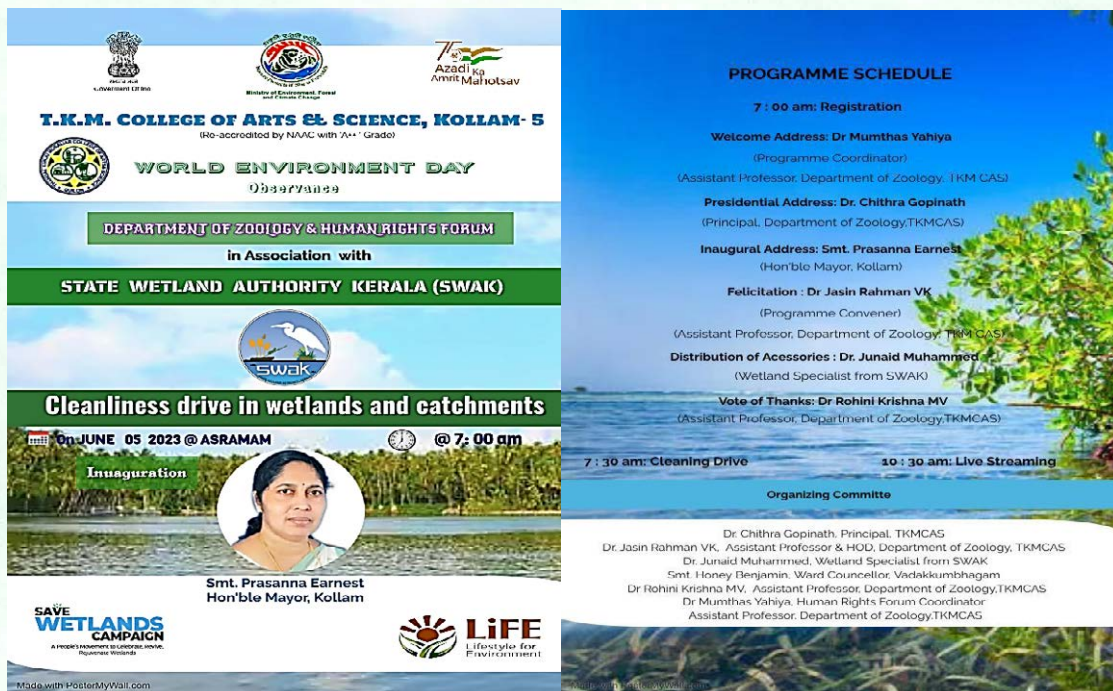


VIII. GREEN EXTENSIONS

a. Cleaning Drive - World Environment Day Observance, 2023

To contribute to this cause and raise awareness, the Department of Zoology and the Human Rights Forum of TKM College of Arts and Science in Kollam organized a cleanliness drive at the wetland regions of Ashramam on June 5th, 2023, from 7 a.m. to 9 a.m. This event was conducted in collaboration with the State Wetland Authority of Kerala (SWAK). As part of the Azadi Ka Amrit Mahotsav organized by the Central Ministry of Environment, Forestry, and Climate Change, a live stream with the Prime Minister was broadcasted. The Hon'ble Mayor of Kollam Corporation, Smt. Prasanna Ernest, inaugurated the program

Brochure



Volunteers with Kollam Mayor





Handing over T- shirts



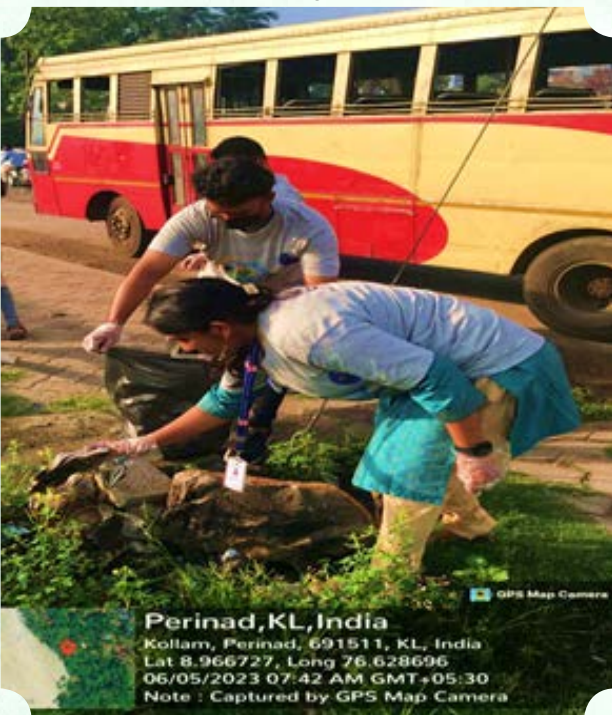
Handing over Badge



Cleaning Drive



Cleaning Drive



Cleaning Drive



Cleaning Drive



Cleaning Drive



Cleaning Drive



**Discussion with
Mayor -Smt.Prasanna Earnest**



**Collected plastics handover to Kollam Corporation
Haritha Karma Senna**



Live streaming with Prime minister



**Students with Dr. Junaid
(Wetland Specialist from SWAK)**



REPORTS

ആശ്രാമത്തെ തണ്ണീർത്തടങ്ങൾ ശുചീകരിച്ചു

കൊല്ലം

ട്രൈകെഎം കോളേജ് ഓഫ് ആർട്സ് ആൻഡ് സയൻസിലെ സുവോളജി വകുപ്പും മനുഷ്യാവകാശ ഫോറവും സംസ്ഥാന തണ്ണീർത്തട അതോറിറ്റി കേരളയുടെ സഹകരണത്തോടെ ആശ്രാമം ഭാഗത്തെ തണ്ണീർത്തടങ്ങളിലും വൃഷ്ടിപ്രദേശങ്ങളിലും ശുചീകരണയജ്ഞം സംഘടിപ്പിച്ചു. ശേഖരിച്ച മാലിന്യങ്ങൾ കോർപ്പറേഷൻ ഹരിതകർമ്മ സേനയ്ക്ക് കൈമാറി. കേന്ദ്രപരിസ്ഥിതി, വനം, കാലാവസ്ഥാ വ്യതിയാന മന്ത്രാലയത്തിന്റെ ആസാറി കാ അമ്യത് മഹോത്സവിന്റെ ഭാഗമായി പ്രധാനമന്ത്രിയുമായി ലൈവ് സ്ട്രീമിംഗ് നടത്തി. തണ്ണീർത്തട സംരക്ഷണ പ്രവർത്തനത്തിൽ പങ്കാ



ആശ്രാമം ഭാഗത്തെ തണ്ണീർത്തടങ്ങളിലും വൃഷ്ടിപ്രദേശങ്ങളിലും സംഘടിപ്പിച്ച ശുചീകരണയജ്ഞത്തിൽ പങ്കെടുത്തവർ

ളികളാകാൻ വിദ്യാർഥികൾ ഉദ്ഘാടനം ചെയ്തു. സുവോളജി സ്ഥാന തണ്ണീർത്തട അതോറിറ്റി കൊല്ലം കോ-ഓർഡിനേറ്റർ വിഭാഗം മേധാവി ജസിൻ റ്റി കൊല്ലം കോ-ഓർഡിനേറ്റർ റവ്മാൻ, അധ്യപകരായ മുതാജ് സി, രോഹിണി കൃഷ്ണ, സംഘം

ഭദ്രശാഭിമാനി Tue, 06 June 2023 https://epaper.deshabhimani.com/c/72614503

ട്രൈകെഎം കോളേജ് ഓഫ് ആർട്സ് ആൻഡ് സയൻസിലെ സുവോളജി വകുപ്പും മനുഷ്യാവകാശ ഫോറവും സംസ്ഥാന തണ്ണീർത്തട അതോറിറ്റി-കേരളയുടെ സഹകരണത്തോടെ ആശ്രാമം ഭാഗത്തെ തണ്ണീർത്തടങ്ങളിലും വൃഷ്ടിപ്രദേശങ്ങളിലും ശുചീകരണയജ്ഞം സംഘടിപ്പിച്ചു. ശേഖരിച്ച മാലിന്യങ്ങൾ കോർപ്പറേഷൻ ഹരിതകർമ്മസേനയ്ക്ക് കൈമാറി. മേയർ പ്രസന്ന ഏണസ്സ് പരിപാടി ഉദ്ഘാടനം ചെയ്തു.

ശുചീകരണയജ്ഞം സംഘടിപ്പിക്കും

കൊല്ലം▶ സംസ്ഥാന തണ്ണീർത്തട അതോറിറ്റി കേരളയുടെ സഹകരണത്തോടെ ട്രൈകെഎം കോളേജ് ഓഫ് ആർട്സ് ആൻഡ് സയൻസിലെ സുവോളജി വിഭാഗവും ഹ്യൂമൻ റെറ്റേഴ്സ് ഫോറവും ചേർന്ന് ശുചീകരണയജ്ഞം സംഘടിപ്പിക്കും. ആശ്രാമത്തെ തണ്ണീർത്തടങ്ങളിൽ തികളാട്ടു രാവിലെ ഏഴുമുതൽ ഒൻപതുവരെ നടത്തുന്ന പരിപാടി കൊല്ലം കോർപ്പറേഷൻ മേയർ പ്രസന്ന ഏണസ്സ് ഉദ്ഘാടനം ചെയ്യും.

തണ്ണീർത്തടങ്ങൾ ശുചീകരിച്ചു

കൊല്ലം▶ ട്രൈകെഎം കോളേജ് ഓഫ് ആർട്സ് ആൻഡ് സയൻസ് സുവോളജി വകുപ്പും മനുഷ്യാവകാശ ഫോറവും സംസ്ഥാന തണ്ണീർത്തട അതോറിറ്റിയുടെ സഹകരണത്തോടെ ആശ്രാമം ഭാഗത്തെ തണ്ണീർത്തടങ്ങളിലും വൃഷ്ടി പ്രദേശങ്ങളിലും ശുചീകരണയജ്ഞം സംഘടിപ്പിച്ചു. ശേഖരിച്ച മാലിന്യങ്ങൾ കോർപ്പറേഷൻ ഹരിത കർമ്മ സേനയ്ക്ക് കൈമാറി. ആസാറി കാ അമ്യത് മഹോത്സവിന്റെ ഭാഗമായി പ്രധാനമന്ത്രിയുമായി ലൈവ് സ്ട്രീമിംഗും നടത്തി. കോർപ്പറേഷൻ മേയർ പ്രസന്ന ഏണസ്സ് ഉദ്ഘാടനം ചെയ്തു. സുവോളജി വിഭാഗം മേധാവി ഡോ.ജസിൻ റവ്മാൻ, അധ്യപകരായ ഡോ.മുതാജ് സി, രോഹിണി കൃഷ്ണ, സംസ്ഥാന തണ്ണീർത്തട അതോറിറ്റി കൊല്ലം കോ-ഓർഡിനേറ്റർ ഡോ.ജൂനൈദ് എമ്മി വർ പ്രസംഗിച്ചു.

c. One-day wetland conservation training

The State Wetlands Authority Kerala (SWAK) jointly conducted a one-day wetland conservation training for college students who registered as wetland Mithras (Vembanad, Sasthamkotta, and Ashtamudi lakes) in association with the Department of Zoology at TKM College of Arts and Science, Kollam. The workshop has an opportunity for new students to register as wetland mithras, and a poster exhibition was arranged on different types of wetlands in Kerala and their threats. Environmentalist Mr. Dileep Kumar, Dr. Lakshmi Sreekumar (Assistant Professor and Faculty in Charge of Bhoomithra Sena Club, KSMDDB College, Sasthamkotta), and Programme Assistant Coordinator Dr. Rohini Krishna MV (Women’s Study Unit Coordinator and Assistant Professor in Zoology, TKM CAS, Kollam) delivered a vote of thanks. The technical session was started by wetland specialists Dr. Junaid Hassan S.,





ടികെഎം കോളജ് ഓഫ് ആർട്സ് ആൻഡ് സയൻസിൽ നടന്ന തണ്ണീർത്തട സംരക്ഷണ പരിശീലനത്തിൽ പ്രിൻസിപ്പൽ ഡോ.ചിത്ര ഗോപിനാഥ് പ്രസംഗിക്കുന്നു.

തണ്ണീർത്തട സംരക്ഷണം: പരിശീലനം നൽകി

കൊല്ലം • ടികെഎം കോളജ് ഓഫ് ആർട്സ് ആൻഡ് സയൻസ് ജന്തുശാസ്ത്ര വിഭാഗവും സംസ്ഥാന തണ്ണീർത്തട അതോറിറ്റിയും സംയുക്തമായി വിദ്യാർത്ഥികൾക്കു തണ്ണീർത്തട സംരക്ഷണ പരിശീലനം നൽകി.

വിദ്യാർത്ഥികൾക്കു തണ്ണീർത്തട മിത്രങ്ങളായി റജിസ്റ്റർ ചെയ്യാനുള്ള അവസരവും പോസ്റ്റർ പ്രദർശനവും ഒരുക്കി. ഡോ.ജുനൈദ്

ഹസൻ, ഡോ.ജോൺ സി.മാത്യു, വി.കെ.മധുസൂദനൻ, അരുൺ കുമാർ എന്നിവർ പരിശീലനം നൽകി. കോളജ് പ്രിൻസിപ്പൽ ഡോ. ചിത്ര ഗോപിനാഥ്, സുവോളജി വിഭാഗം മേധാവി ഡോ.ജസിൻ റഹ്മാൻ, പ്രോഗ്രാം കോർഡിനേറ്റർ ഡോ.മുതാസ്, ഡോ.ലക്ഷ്മി ശ്രീകുമാർ, ദിലീപ് കുമാർ, ഡോ.രോഹിണി കൃഷ്ണ എന്നിവർ പ്രസംഗിച്ചു.



d. Ecofriendly Bags making and Distribution

Dept. Of Botany in association with nature club organized an activity on Ecofriendly bags making and distribution was organized on 8-06-2023



Organized By
Nature Club, Sports Club and
Department of Botany

**Eco Friendly Bag
Making and Distribution**

Say No to Plastic Bags

08/06/2023

...

TKM COLLEGE OF ARTS & SCIENCE
KOLLAM
WORLD ENVIRONMENT DAY
2023

#BeatPlasticPollution

Organizing Committee

Dr.Chithra Gopinath	(Principal)
Smt. Jisha M.S	(Co-ordinator)
Dr.Sangeetha .P	(Co-ordinator)
Dr.Boby .T. Edwin	(HOD, Dept. Of Botany)
Dr.M.J Sheeba	(Faculty, Dept. Of Botany)
Dr.Sangeetha G	(Faculty, Dept. Of Botany)



e. Green Volunteers - Kerala School Kalatsavam

The 62nd edition of the Kerala School Kalolsavam was held in Kollam district. A key feature of this edition was the implementation of the Green Protocol, and a dedicated committee was appointed to ensure strict adherence to this protocol. The Green Protocol committee approached our volunteers to assist in this initiative. To prepare for their roles, volunteers and teachers underwent proper training to lead the activities of the Green Protocol committee during the Arts Festival. The training program, titled “Haritha Kalolsavam 2024,” was held on 3rd January 2024 at 2 p.m. in the Bishop Jerome Auditorium, Fatima Mata National College, Kollam. The event was organized under the leadership of the Green Protocol Committee and the District Sanitation Mission.



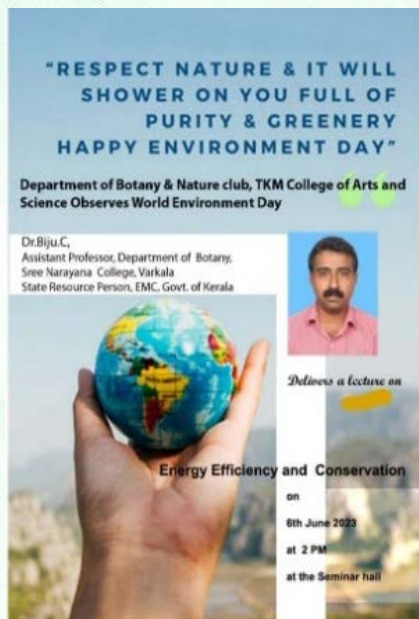
f. Sneharamam

Sneharamam is a government project launched with the aim of making Kerala greener. As part of this initiative, carried out by the State Government's Higher Education Department and the National Service Scheme, approximately 3,000 dump sites across the state were transformed into Sneharamam Parks for public use. As a contribution to this project, our volunteers chose Thangal Kunju Musaliar Park in Kollam. During the Annual Special Camp, our volunteers worked diligently to convert the site into a park. On January 1, 2024, marking the beginning of the new year, around 50 volunteers revisited the park to continue their efforts.



g. Nature club- UN World Environment Day observance

The activity of nature club started on 05/06/2023 at 1.00 pm. The activity was inaugurated by the Principal Dr.Chithra Gopinath. There were 60 club members from various disciplines. General introductory session by the co-ordinator and selection of student co-ordinators organized a seminar as part of World Environment Day Observance on 06-06-2023.



h. "Kanivintethanneerthadangal" a Handwritten Magazine

The Nature Club of TKM College of Arts and Science in Kollam organized a creative and environmentally conscious bookmark making event aimed at promoting sustainability and raising awareness about the importance of nature conservation on 03-01-2024. "Kanivintethanneerthadangal" a handwritten magazine was prepared by the club members to observe World Wetlands Day.



i. Agricultural Practices

To better understand the socio-economic and agricultural conditions of the adopted village, a comprehensive census was planned and conducted. As part of the preparation for this initiative, a training session was organized by the Department of Economics and Statistics, Kollam. This training equipped volunteers with the knowledge and skills needed to carry out the census effectively. By conducting the census, we aim to gain a clear understanding of the living conditions and challenges faced by the residents of our adopted village. The insights gathered will enable us to devise well-informed plans and implement progressive changes to improve the quality of life for the villagers. The initiative highlights our commitment to fostering development and uplifting the adopted village through targeted and impactful actions.



j. Khadi Fest

The Khadi Board of India is a prestigious organization dedicated to promoting and preserving the traditional value of our clothing. It also plays a key role in popularizing indigenous fabrics and garments. As part of the Onam sale celebrations, a traveling Khadi Fest organized by the Kollam Khadi Board visited our college. This event, held in collaboration with our NSS unit, took place when the sales van arrived at our college at 11 a.m. A variety of Khadi products were made available to teachers and college staff at discounted prices. After the sale, the van departed from the college compound at 3:30 p.m. This initiative served as an excellent way to popularize Khadi products among our college community and raise awareness about the importance of supporting indigenous goods.



k. Swachhata Hi Seva 2023 – Garbage free India

On September 5th, 2023, as part of the “Swachhata Hi Seva” campaign, 30 cadets from the 3 Kerala Girls Battalion (SW) of NCC at TKM College, Kollam, conducted a beach cleanup drive at Kollam Beach. This initiative aligned with the nationwide mission for a “Garbage-Free India” and aimed to raise awareness about cleanliness, environmental protection, and community responsibility. The cadets emphasized the need for sustained efforts to keep public spaces clean and encouraged beachgoers to responsibly dispose of waste. The “Swachhata Hi Seva 2023” drive by the NCC cadets left a lasting message of commitment to a cleaner, greener India.





IX. GREEN FARMING

a. Njattuvela - Crop Harvest from our Campus

India is an agricultural nation, with a significant portion of its economy reliant on agriculture. Each step of the farming process is intertwined with joy and festivity. From ancient times, our celebrations have been closely linked to various stages of farming. Activities such as planting and harvesting are moments of immense happiness and pride. This year, the time for cultivation had arrived, and the NSS unit of our college enthusiastically began the cultivation process on our designated land. The event was inaugurated with great fervor by the Kottamkara Panchayat President and our college Principal, Dr. Chithra Gopinath. Following the inauguration, all the volunteers united in the fields, joyfully sowing seeds. Members from the Haritha Karma Sena and the Agriculture Department were also present to assist and guide us during the activity. The collective effort and camaraderie made the experience highly enjoyable.



b. Hybrid pepper saplings planting

As part of our campus cultivation program, we planted hybrid pepper saplings in the designated farming area. The cultivation initiative was inaugurated by our college principal, Dr. Chitra Gopinath, followed by our program officer, Dr.Sulfiya Samad, and actively participated in by all the volunteers. As young cultivators, we had certain doubts, which were clarified by some of the non-teaching staff members of our college.








c. Harvest and Sale of Mussels at Ashtamudi Lake


The Department of Zoology conducted the harvest and sale of mussels at Ashtamudi Lake on 15/06/2023 as part of a student start-up project on mussel farming. The project was implemented by the Department of Zoology in collaboration with Vizhinjam Regional Centre of Central Marine Fisheries Research Institute (CMFRI). The primary objective of the project was to facilitate vocational skill development among students and nurture a habit of earning while learning (the “Earn While You Learn Project”). The student start-up project was coordinated by a self-help group called “ZooAqua TKMCAS,” which was formed among SC students of the Department of Zoology. The CMFRI played a crucial role in funding and supporting all project activities through the SCSP Scheme. Dr. MK Anil, principal scientist from the Marine Biology division, provided coordination and guidance throughout the project. In December 2022, Mrs. Adhila Abdullah, the Director of the Department of Fisheries, Kerala Government, deposited the seeds required for the mussel farming project. These seeds served as the foundation for the subsequent stages of the project.

TKM COLLEGE OF ARTS AND SCIENCE
Re-accredited by NAAC With A++ Grade



DEPARTMENT OF ZOOLOGY
In Collaboration with

**ICAR VIZHINJAM REGIONAL CENTRE OF
CENTRAL MARINE FISHERIES RESEARCH INSTITUTE**



MUSSEL HARVEST AND SALE
ON 15/06/2023 at 10 AM
@ VAYALIKADA, VELLIMON



Mussel harvest



Harvested mussel



Sorting of harvested mussel



Students taking part in mussel sorting



Sale of mussels in college

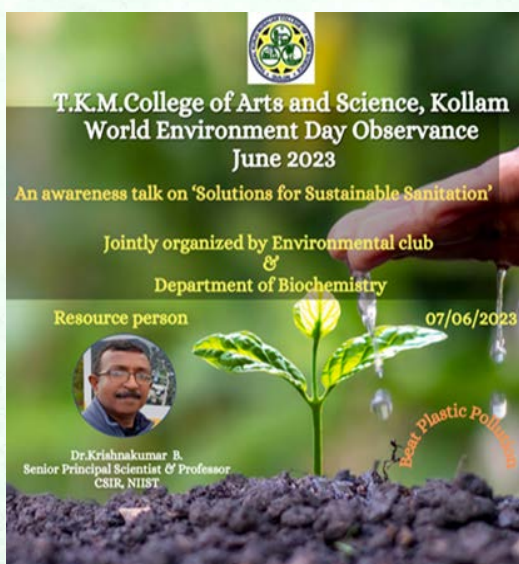


Mathurbhumi 18/06/23

X. ENVIRONMENT CONSERVATION / AWARENESS PROGRAMMES

a. World Environment Day - Awareness talk on “Solutions for Sustainable Sanitation”

The Environmental Club, in collaboration with the Department of Biochemistry, organized a program to observe World Environment Day. The event featured an awareness talk titled “Solutions for Sustainable Sanitation” and was held on Wednesday, June 7, 2023, in the seminar hall. Dr. Krishnakumar B., Senior Principal Scientist, NIIST, Thiruvananthapuram led the awareness talk, providing valuable insights into sustainable practices related to sanitation and waste management. He emphasized the critical importance of effective water management in achieving sustainable sanitation and discussed various methods for reusing sewage water, highlighting techniques and technologies that can be employed to recycle water for safe reuse.



b. International year of millets



As part of the International Year of Millets, NCC cadets organized a millet awareness campaign on August 1st at the college premises and in Kottamkara Panchayat. The initiative aimed to highlight the nutritional benefits and environmental sustainability of millets. 20 cadets participated in the program. Informative pamphlets were distributed, and villagers were encouraged to include millets in their diet. The campaign was well-received, fostering awareness and generating interest in this sustainable crop among both urban and rural communities.



WJ8M+CH2, Karicode,
Peroor, Kottamkara, Kerala
691005, India

01 Aug 2023 09:36 AM



overcast
clouds

27.0 °C



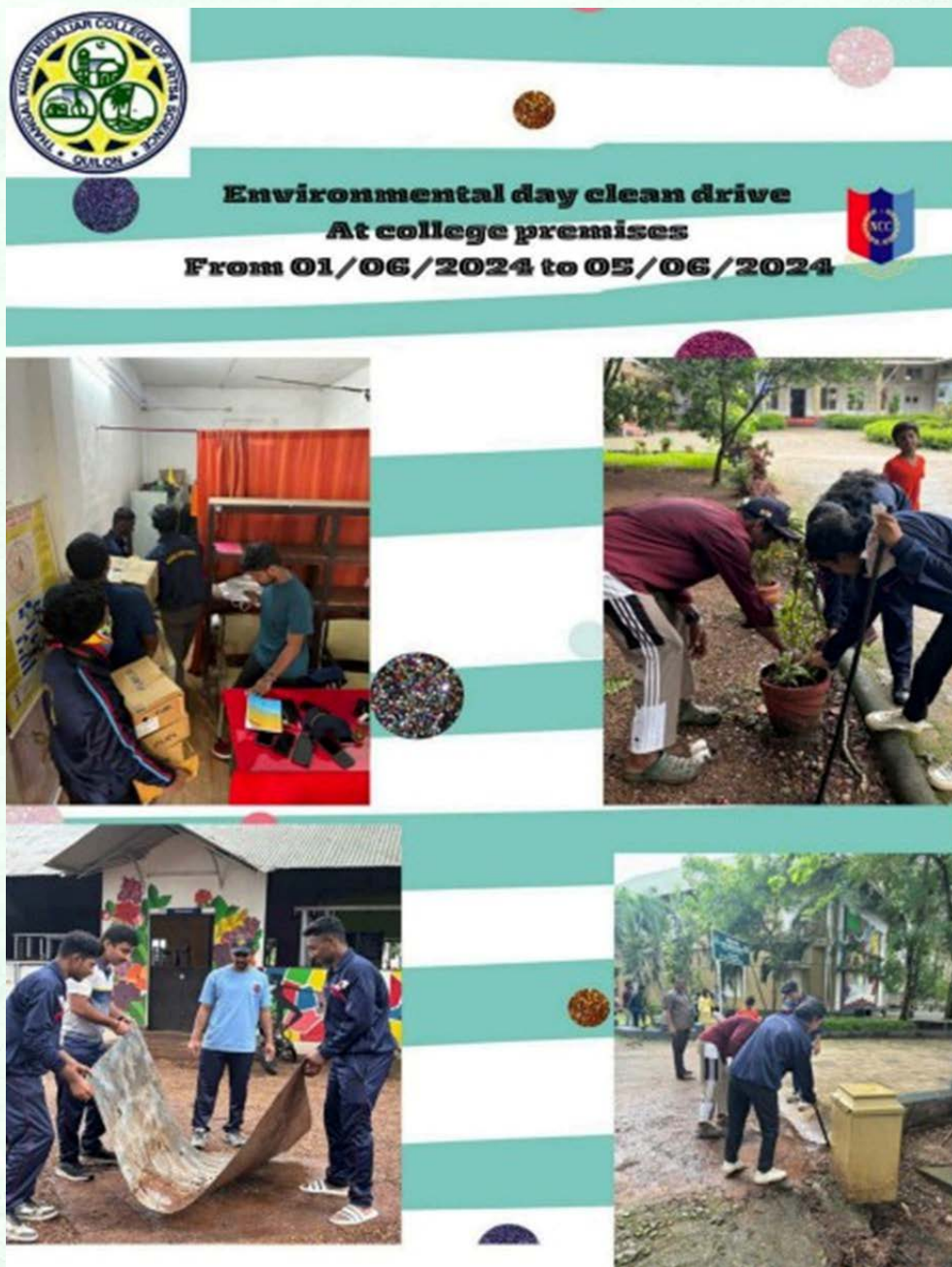
c. World earth hour day

The NCC cadets of TKMCAS, under the 9K Battalion NCC Kottarakara, observed Earth Hour Day with a special program. All NCC cadets gathered in the college auditorium at 9:45 am. The event was inaugurated by our college principal, Chithra Gopinath, who delivered a thought-provoking speech on the impact of pollution on the environment. As part of the World Earth Hour Day activities, the NCC cadets created a poster highlighting environmental awareness. A total of 21 cadets actively participated in the program.



d. Environment Day

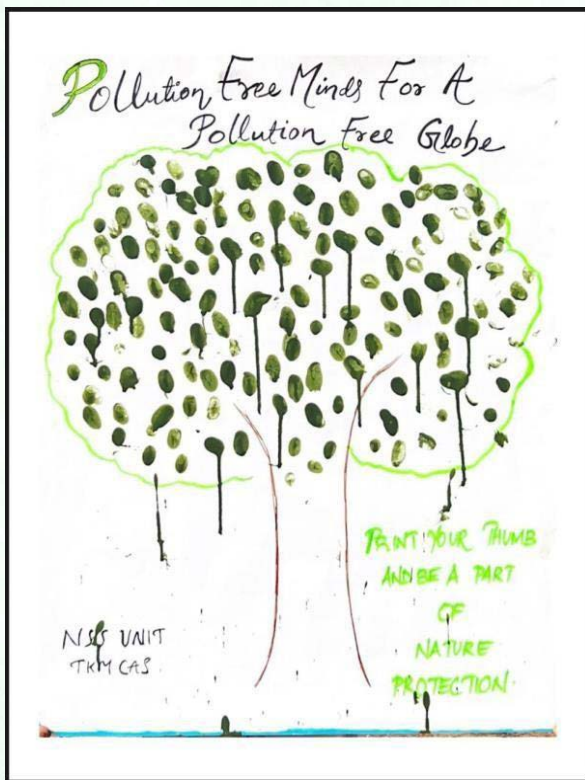
On June 5th, we celebrated Environment Day, marking the beginning of the academic year's activities with the observation of World Earth Hour Day. As part of the celebration, the cadets organized various programs, including a rally from TKM College to Karicode bus stand. The cadets also organised a campus cleaning programme and also planted saplings in their houses to show their respect and gratitude towards the environment.





e. World Environment Day Observance

World Environment Day serves as a reminder that individual efforts in combating pollution are crucial our NSS unit decided to spread awareness about World Environment Day by organizing cultural events and a poster-making competition at 10 a.m. in the college seminar hall. This initiative not only showcased the hidden talents of the students but also helped highlight the importance of protecting the environment. The events and activities were designed to engage students actively, as they were organized and coordinated by the students themselves, fostering a sense of responsibility and involvement in environmental preservation.



f. NSS- World **Ozone** Day

Ozone Day, celebrated on September 21st each year, serves as a reminder of the need to protect the ozone layer. In connection with Ozone Day celebrations, our volunteer Aayisha A. Kabir delivered an insightful presentation. The program was held in the college seminar hall and commenced at 11 a.m. During her presentation, Aayisha covered several important aspects. The program left a lasting impact on the audience, emphasizing that if we continue our current unsustainable practices, we may soon face irreversible consequences. It was a wake-up call for all attendees to reconsider their actions and contribute to protecting the environment.



T.K.M COLLEGE OF ARTS AND SCIENCE
KARIKODE, KOLLAM - 691005

National Service Scheme
Unit No : KL 07 - 12 A&B

Presents
World Ozone Day
September 16

PROGRAMS

Awareness Session by
Aayisha A Kabir
(NSS volunteer TKMCAS)

AND
QUIZ COMPETITION

ON:
SEPTEMBER 15

FROM:
02:30 PM ONWARDS

VENUE:
COLLEGE SEMINAR HALL

15/09/23 03:59 PM GMT +05:30





Web: www.tkmcas.ac.in | Email : tkmarts@gmail.com