NEHRU ARTS AND SCIENCE COLLEGE KANHANGAD
P.O. Padnekat | Kasaragod Dist. | Kerala - 671314
Affiliated to Kannur University

HARITHAMUDRA

Green Campus Initiatives and Environmental Practices

Best Practice-02

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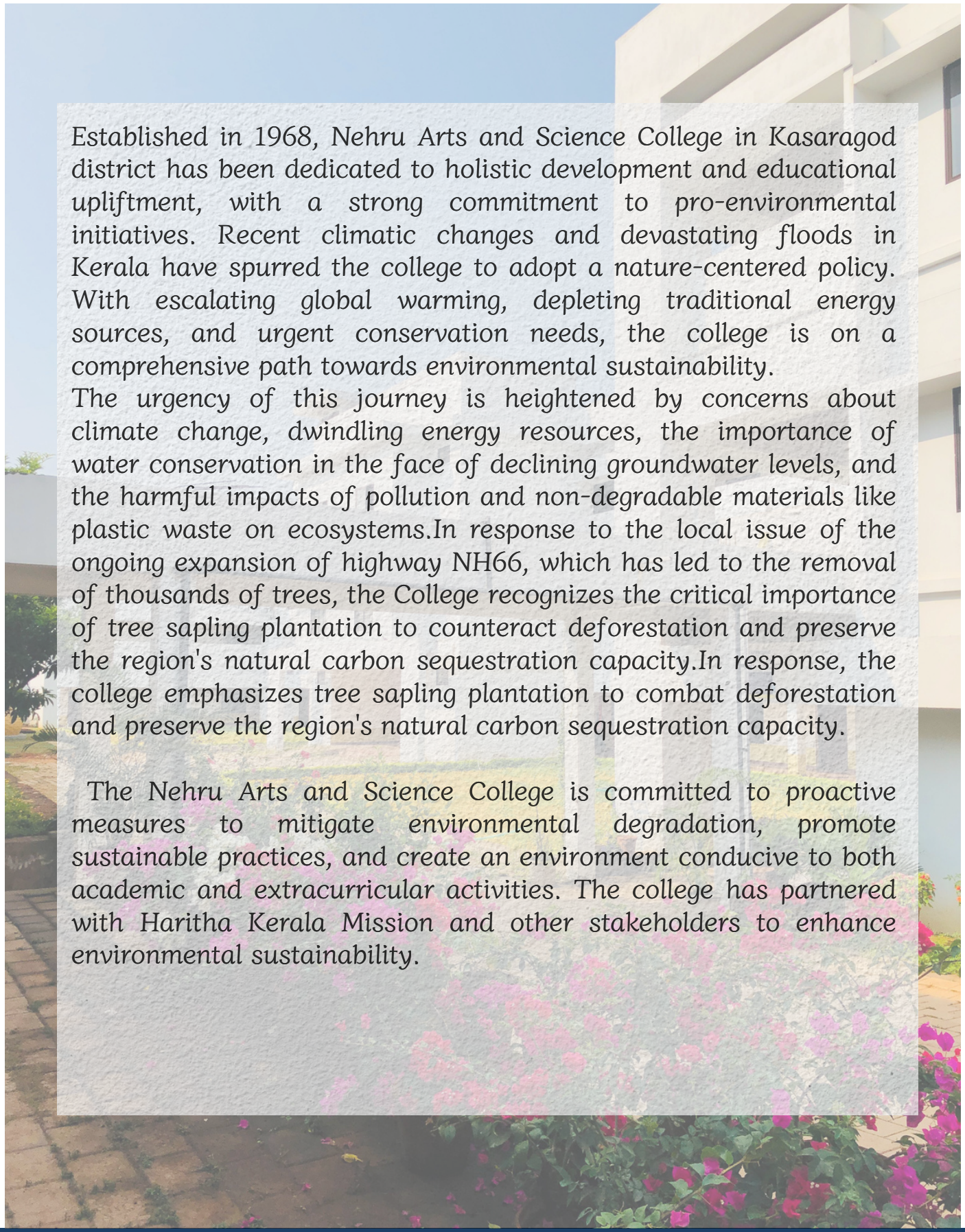
OBJECTIVES OF THE PRACTICE

- Create an inclusive and environmentally sustainable campus culture by integrating these principles into every facet of campus life.
- Promote universal participation and equitable benefits for all members of the college community in green campus initiatives, regardless of background or circumstance
- Implement practices to reduce the college's ecological footprint through energy conservation, waste minimization, and biodiversity promotion.
- Create an inclusive environment where diverse perspectives drive the development and execution of sustainability initiatives.
- Educate and empower students, faculty, and staff to become environmental stewards and advocates for inclusivity.
- Continuously evaluate and improve sustainability efforts to enhance environmental stewardship and inclusiveness throughout the campus community

The Context



Established in 1968, Nehru Arts and Science College in Kasaragod district has been dedicated to holistic development and educational upliftment, with a strong commitment to pro-environmental initiatives. Recent climatic changes and devastating floods in Kerala have spurred the college to adopt a nature-centered policy. With escalating global warming, depleting traditional energy sources, and urgent conservation needs, the college is on a comprehensive path towards environmental sustainability.

The urgency of this journey is heightened by concerns about climate change, dwindling energy resources, the importance of water conservation in the face of declining groundwater levels, and the harmful impacts of pollution and non-degradable materials like plastic waste on ecosystems.In response to the local issue of the ongoing expansion of highway NH66, which has led to the removal of thousands of trees, the College recognizes the critical importance of tree sapling plantation to counteract deforestation and preserve the region's natural carbon sequestration capacity.In response, the college emphasizes tree sapling plantation to combat deforestation and preserve the region's natural carbon sequestration capacity.

The Nehru Arts and Science College is committed to proactive measures to mitigate environmental degradation, promote sustainable practices, and create an environment conducive to both academic and extracurricular activities. The college has partnered with Haritha Kerala Mission and other stakeholders to enhance environmental sustainability.

The Practice

GREEN CAMPUS POLICY

Nehru Arts and Science College, Kanhangad, is lauded for its exemplary green campus policies. Through robust waste management, water conservation, and energy-efficient solutions, the college has reduced its environmental footprint. Waste segregation, composting, and awareness campaigns ensure effective waste management. Water-saving fixtures and educational workshops promote responsible water usage.

The installation of energy-efficient lighting and solar panels showcases their commitment to sustainable energy. Recognition with the Green Campus Award validates their efforts, inspiring other institutions. Nehru Arts and Science College sets a commendable standard for environmental stewardship, fostering a culture of responsibility and contributing to a greener future.

Every drop of water saved today ensures a better tomorrow. Conserving water is not just a responsible choice; it's a necessity. Simple actions like fixing leaks, using water-efficient fixtures, and practicing mindful consumption can collectively make a substantial impact. By reducing water wastage in our campus, we not only preserve this precious resource for future generations but also safeguard ecosystems and wildlife that depend on it.

Nehru Arts and Science College's greenhouse is a vibrant hub of botanical wonders, where the magic of nature unfolds under a canopy of glass. This enclosed oasis nurtures a diverse array of plant life, from delicate orchids to towering ferns, creating a lush and thriving ecosystem within its walls. Here, students delve into the intricacies of plant biology, conducting experiments and learning firsthand about photosynthesis, plant growth, and environmental interactions. The greenhouse serves not only as a laboratory for scientific discovery but also as a sanctuary for relaxation and contemplation, where the soothing scent of flowers and the gentle rustle of leaves create a tranquil atmosphere.This poly house was specifically built for maintaining orchids, ferns, aroids, begonias, seedlings of RET plants and many more plants of practical importance and aesthetic beauty.

BAN ON SINGLE-USE PLASTICS

Our college has taken a bold step towards sustainability by implementing a ban on single-use plastics. This report outlines the best practices and impacts of this initiative on our campus community.

The ban on single-use plastics includes items such as plastic straws, cups, cutlery, and containers. Instead, reusable alternatives like bamboo utensils, steel glasses, and compostable containers are provided in dining areas and events. This proactive measure aligns with global efforts to reduce plastic pollution and promotes a culture of environmental responsibility among students and staff.

The transition was supported by educational campaigns highlighting the environmental harm caused by single-use plastics. The college collaborated with local businesses to ensure availability of eco-friendly alternatives in nearby shops. This not only reduces waste on campus but also extends the impact beyond our boundaries.

Zero Waste Campus

Transforming Nehru Arts and Science College into a Zero Waste Campus is a bold and visionary initiative that holds the promise of significant environmental impact and educational value. A Zero Waste Campus goes beyond conventional waste management practices; it represents a holistic approach to sustainability, resource conservation,and responsible consumption.

SOURA PROJECT

The Soura Project at Nehru Arts and Science College, Kanhangad, launched in collaboration with the Kerala State Electricity Board (KSEB) on September 6, 2021, marks a significant milestone in the college's journey towards sustainability and renewable energy adoption. The primary objective of the Soura Project is to establish a sustainable energy infrastructure by installing a 100 kWp Solar Power Plant on the college premises, with the energy transmitted to the KSEB grid. This initiative benefits Nehru Arts and Science College by providing clean energy, which fosters a conducive learning environment for students and staff.

One of the best practices exemplified by Nehru Arts and Science College through the Soura Project is its commitment to environmental stewardship. By reducing its carbon footprint through the use of renewable energy sources, the college is actively contributing to environmental conservation efforts. This commitment not only aligns with global sustainability goals but also serves as a valuable educational tool for students, demonstrating the importance of responsible energy practices.

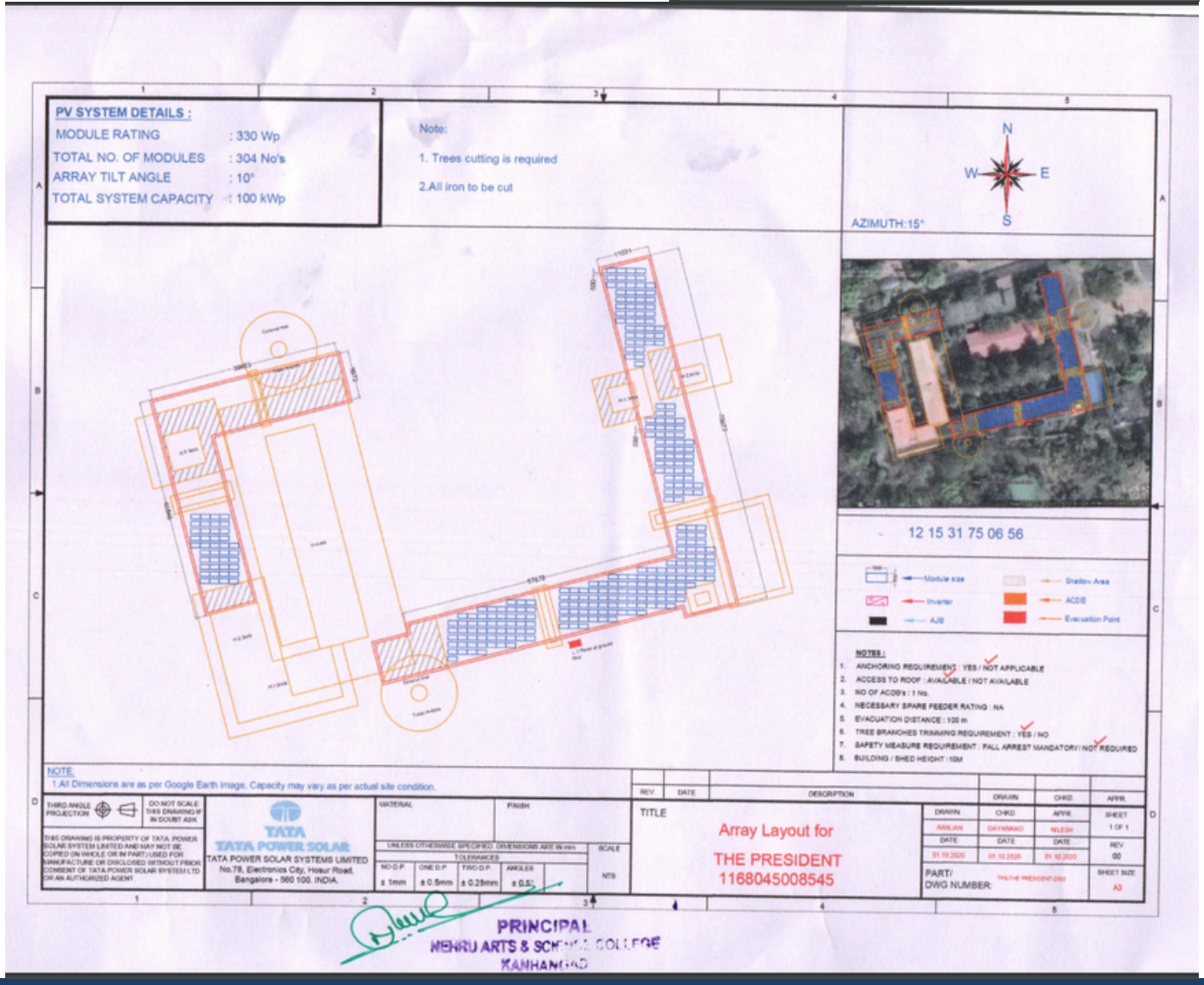
Moreover, the Soura Project showcases the college's engagement with the local community. The surplus energy fed back to the grid benefits the community by reducing dependency on conventional sources of electricity. This not only helps in mitigating energy shortages but also promotes sustainable living practices within the community.
Furthermore, the long-term cost savings brought about by the Soura Project demonstrate the economic viability of renewable energy adoption.


KSEB

Soura Project (Model I)
Agreement executed
between
The Consumer
and
The State Nodal Officer,
Soura Project

Name of Consumer/Owner : The President, Nehru Arts & Science College, Padannakkad.
Consumer No. : 1168045008545
Capacity of Roof Top Solar Plant : 100 Kwp
Agreement Date : 16-10-2020

PRINCIPAL
NEHRU ARTS & SCIENCE COLLEGE
KANHANGAD


PV SYSTEM DETAILS :
MODULE RATING : 330 Wp
TOTAL NO. OF MODULES : 304 No's
ARRAY TILT ANGLE : 10°
TOTAL SYSTEM CAPACITY : 100 kWp

Note:
1. Trees cutting is required
2.All iron to be cut

AZIMUTH:15°

12 15 31 75 06 56

NOTES :
1. ANCHORING REQUIREMENT : YES / NOT APPLICABLE
2. ACCESS TO ROOF : AVAILABLE / NOT AVAILABLE
3. NO OF ACDB's : 1 No.
4. NECESSARY SPARE FEEDER RATING : NA
5. EVACUATION DISTANCE : 100 m
6. TREE BRANCHES TRIMMING REQUIREMENT : YES / NO
7. SAFETY MEASURE REQUIREMENT : FALL ARREST MANDATORY/ NOT REQUIRED
8. BUILDING / SHED HEIGHT : 10M

NOTE:
1.All Dimensions are as per Google Earth image. Capacity may vary as per actual site condition.

TATA POWER SOLAR
TATA POWER SOLAR SYSTEMS LIMITED
No.78, Electronics City, Hosur Road, Bangalore - 560 100. INDIA.

TITLE
Array Layout for
THE PRESIDENT
1168045008545

PRINCIPAL
NEHRU ARTS & SCIENCE COLLEGE
KANHANGAD

SOLAR LAMP

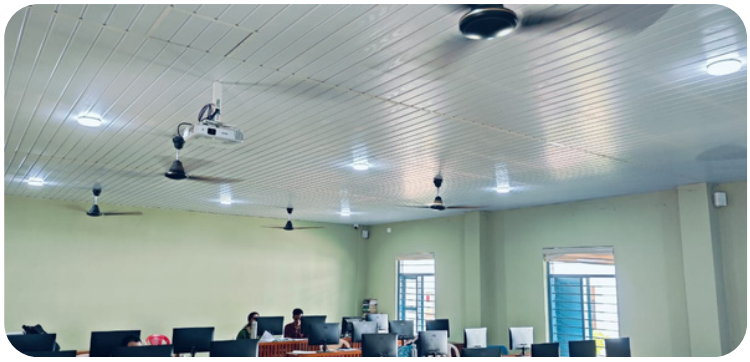
In a collaborative effort, Nehru Arts and Science College Kanhangad, in partnership with its Physics Department, recently hosted the Student Solar Ambassadors Workshop in association with IIT Bombay. The workshop aimed to raise awareness among undergraduate and postgraduate students about the detrimental effects of climate change while instilling in them a commitment to advocate for renewable energy solutions. This initiative seeks to empower students to become future leaders in promoting sustainable practices, thereby contributing to global efforts to combat climate change.

As part of the Gandhi Global Solar Yatra, the Student Solar Ambassadors-2019 (SSA-2019) workshop provided hands-on training to 150 students in assembling solar study lamps. This event underscores the college's dedication to fostering environmental consciousness and equipping students with practical skills to address pressing global challenges. Through such collaborative endeavours, Nehru Arts and Science College continues to cultivate a generation of socially responsible leaders committed to building a sustainable future

EFFICIENT LED LIGHTING

Our college has successfully implemented efficient LED lighting as part of our sustainability initiatives, resulting in significant energy savings. LED lights have been strategically installed in areas where substantial energy is required, such as computer labs, offices, and common areas.

The adoption of LED lighting has proven to be a best practice for several reasons. Firstly, LED lights are renowned for their energy efficiency, consuming up to ~~80%~~ less electricity than traditional incandescent bulbs. This translates directly to reduced energy bills for the college, allowing for financial resources to be allocated to other academic and operational needs.



Moreover, LED lights have a longer lifespan, reducing maintenance costs and the frequency of replacements. This not only saves on operational expenses but also minimizes disruptions to daily activities due to maintenance downtime.

The impact on our environment is equally significant. LED lights are eco-friendly, emitting less heat and reducing our carbon footprint. This aligns with our college's commitment to sustainability and responsible resource management.

In conclusion, the implementation of efficient LED lighting at our college stands as a beacon of best practices in energy conservation. Beyond the immediate benefits of cost savings and reduced maintenance, it exemplifies our dedication to creating a greener campus for the benefit of current and future generations.

TREE PLANTATION INITIATIVE

In a collaborative effort with the Forestry Department, the College's NSS and NCC units, Bhoomithrasena, and the Biodiversity Club, an impactful initiative was undertaken to enhance the greenery of the campus. This endeavour involved the planting of hundreds of trees, including mango, jackfruit, bamboo species and other trees.
The social impact of this drive is profound and multifaceted. Firstly, it fosters a sense of environmental consciousness and responsibility among the students and staff involved. By actively participating in tree planting, individuals are not only contributing to the beautification of the campus but also engaging in tangible action towards ecological preservation. Furthermore, the initiative promotes community cohesion and collaboration. Through partnerships with various departments and clubs within the college, students from diverse backgrounds come together to work towards a common goal. This shared experience strengthens bonds and fosters a spirit of teamwork and camaraderie among participants.

Moreover, the planting of diverse tree species, including fruit-bearing ones like mango and jackfruit, holds significant socio-economic benefits. These trees not only enhance the aesthetic appeal of the campus but also provide tangible resources such as fruits , which can be utilized by the college community. This contributes to food security, promotes sustainable practices, and instils an appreciation for the interconnectedness of human well-being and the natural environment. Overall, the collaborative tree planting drive organized by the College and its partners goes beyond mere landscaping efforts. It serves as a testament to the power of collective action in fostering environmental stewardship, community engagement, and sustainable development within the college campus and beyond. These trees are carefully tended to by the students and members of their respective organizations, ensuring their upkeep and maintenance.

BHOOMITRA SENA

The formation of the Bhoomitra Sena Club at Nehru Arts and Science College in Kanhangad represents a proactive step towards cultivating a deeper appreciation for the environment among college students. This club is not just a name; it's a platform designed to immerse students in environmental education and action, focusing on the specific environmental issues relevant to the college's locality.
One of the primary goals of the Bhoomitra Sena Club is to provide meaningful environmental education opportunities for college students. This goes beyond traditional classroom learning, offering hands-on experiences that connect students directly with their surroundings. Field trips, nature walks, and workshops are just a few examples of the activities that the club can organize. These experiences allow students to observe, interact with, and learn about the local ecosystem firsthand, fostering a sense of connection and responsibility towards their environment.
By engaging in such activities, students gain a deeper understanding of the environmental issues facing their locality. Whether it's the preservation of local biodiversity, the impact of pollution on nearby water bodies, or the challenges of waste management, the club ensures that students are well-informed about these pressing issues. This knowledge serves as a catalyst for action, inspiring students to become advocates for positive change within their community.

In collaboration with Bhoomitra Sena, NSS, and NCC we partner with the Kerala Government's Social Forestry Department and esteemed NGOs like Lions Club and Rotary Club to lead sustainable plantation initiatives both on and off our campus. Together, we worked on establishing a mangrove nursery in Nileswaram with 100,000 plants.

JEEVANAM PROJECT

Nehru Arts and Science College Kanhangad in collaboration with the Jeevanam Project, has planted lakhs of mangrove saplings in the coastal belt of Kasaragod district, Kerala, demonstrating a shared commitment to environmental conservation and sustainable development. The college has actively contributed to this initiative by planting thousands of mangrove saplings and establishing a nursery of 1 lakh mangrove saplings each in the academic years 2021-22, 2022-23, and 2023-24

JEEVANAM PROJECT

COORDINATOR P V DIVAKARAN KADINJIMOOLA, NILESHWAR (P.O)
PH: 9037275653

To Whom It May Concern

This is to certify that Nehru Arts and Science College, Kanhangad, has collaborated with Jeevanam Project for mangrove saplings plantation in the coastal belt of Kasaragod district, Kerala. Jeevanam Project is a significant initiative to plant **Lakhs of Mangrove Saplings** co-ordinated by Mr. P V Divakaran Kadinjimoola, an esteemed environmentalist who won several state level and national level recognitions.

This collaboration between Nehru Arts and Science College and Jeevanam Project signifies a shared commitment towards environmental conservation and sustainable development. The efforts put forth by both parties reflect a commendable dedication to preserving and restoring coastal ecosystems.

We acknowledge the valuable contribution of Nehru Arts and Science College in this noble endeavor by planting thousands of mangroves saplings and nursery of 1 lakh mangroves saplings each in the academic years 2021-22, 2022-23 and 2023-24 and express our gratitude for their proactive involvement in promoting environmental awareness and biodiversity conservation.

We hereby issue this collaboration certificate to recognize the partnership between Nehru Arts and Science College and Jeevanam Project for mangrove plantation, with the shared goal of fostering a greener and healthier coastal ecosystem.

Sincerely,

P.V. Divak...

Sri. P V Divakaran Kadinjimoola
Environmentalist,
Coordinator of Jeevanam Project for Mangrove Plantation
Nileshwar

CAMPUS BLOOM HEAVEN

Well maintained campus garden is a highlight of Nehru Arts and Science College, Kanhangad.Our college's enchanting garden, adorned with natural plants, is a tranquil haven thanks to the diligent work of the Beautification Committee. This report highlights best practices in cultivating and enhancing our campus garden's natural beauty.The College beautification committee prioritizes sustainability by utilizing native plants, which thrive in our local environment and require minimal water and maintenance. This choice not only enhances the garden's ecological value but also reduces our ecological footprint.

Beyond its aesthetic appeal, the garden plays a crucial role in promoting mental and emotional wellness among students, faculty, and visitors alike. Studies have shown that spending time in green spaces can reduce stress, improve mood, and increase productivity. Therefore, maintaining the garden is essential for creating a conducive learning and working environment that supports the holistic development of individuals within the campus community. Moreover, the garden serves as an outdoor classroom, offering opportunities for hands-on learning and environmental education. Students can engage in activities such as plant identification, gardening workshops, and ecological research, deepening their understanding of the natural world and fostering a sense of environmental stewardship.

In essence, the campus garden is not just a patch of greenery; it's a vital component of our campus ecosystem that enriches our lives in numerous ways. By preserving and nurturing this green oasis, we uphold our commitment to sustainability, well-being, and community engagement, ensuring that future generations can continue to benefit from its enduring beauty and significance.

WASTE MANAGEMENT

Nehru Arts and Science College demonstrates a commendable waste management practice by implementing a system for segregating waste on its campus. The college has set up three separate bins for recyclable, biodegradable, and non-biodegradable waste in different locations around the campus. This segregation system helps ensure that waste is appropriately sorted, making it easier for further processing and disposal.

Recyclable Waste Bin designated for materials that can be recycled, such as paper, plastics, glass, and metals. By segregating recyclable waste, the college promotes recycling practices and reduces the amount of waste sent to landfills.

Biodegradable waste includes organic materials such as food scraps, plant waste, and other compostable items. By collecting this waste separately, the college can compost it to create nutrient-rich soil for landscaping or gardening purposes.

Non-biodegradable waste, which typically includes items like plastics that do not decompose easily, is collected separately. This waste is then handed over to Haritha Sena, which likely manages the disposal or recycling of such materials in an environmentally responsible manner.

Regular monitoring of these waste management activities on campus by college authorities ensures that the system is functioning effectively. Monitoring could include checking the bins for proper segregation, ensuring they are not contaminated, and overseeing the proper disposal or recycling processes.

By implementing this waste segregation system, Nehru Arts and Science College demonstrates a commitment to environmental sustainability. They are not only reducing the amount of waste sent to landfills but also promoting responsible waste management practices within their campus community. This initiative also likely serves as an educational opportunity for students and staff, raising awareness about the importance of waste reduction and recycling.

RING COMPOST AND BIOGAS

Nehru Arts and Science College in Kanhangad has implemented innovative and sustainable practices for waste disposal and energy consumption through the use of ring composting and a biogas plant.

Ring Composting: The college has set up ring composting systems at different locations on the campus. Ring composting is a method where food waste is collected and deposited into designated bio-compost pits. This process helps in the decomposition of organic waste, turning it into nutrient-rich compost that can be used to fertilize gardens and landscapes on the campus.

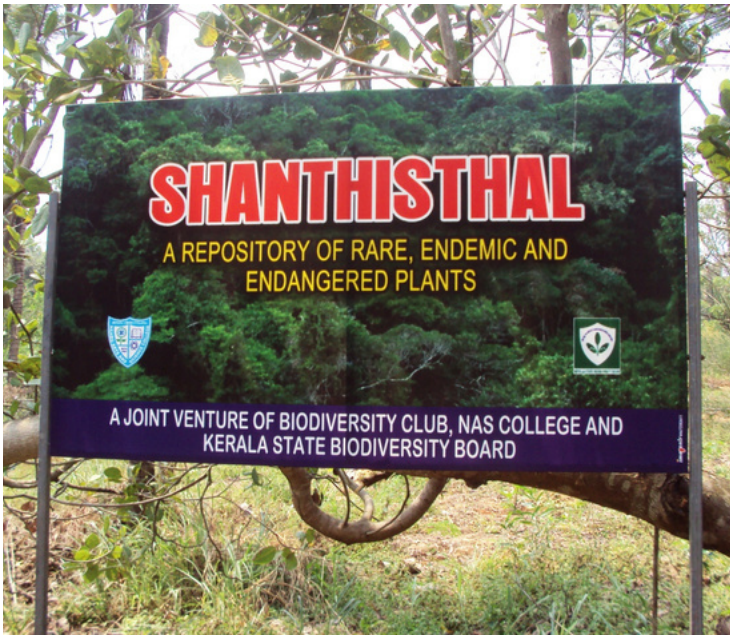
- College Canteen: The college canteen participates in ring composting, contributing food waste to the composting pits. This ensures that the organic waste from the canteen is recycled and used beneficially.
- College Ladies Hostel: Similarly, the ladies' hostel at the college also practices ring composting. Food waste from the hostel is collected and added to the compost pits, further enhancing the college's sustainable waste management practices.

Biogas Plant: Additionally, the college has a biogas plant on its premises. This plant likely utilizes the organic waste collected through ring composting and other sources to produce biogas. Biogas is a renewable energy source produced through the anaerobic digestion of organic matter. It can be used for cooking, heating, and generating electricity.

College Canteen and Ladies Hostel: Both the college canteen and the ladies' hostel likely benefit from the biogas plant. Biogas generated from organic waste provides an eco-friendly alternative to conventional cooking fuels, reducing the college's reliance on fossil fuels.

ARTIFICIAL FOREST–"SHANTHISTHAL"

In a groundbreaking collaboration, the Biodiversity Club of Nehru Arts and Science College, Kanhangad, has partnered with the Kerala State Biodiversity Board to establish a sanctuary aimed at reserving rare, endangered, and endemic plant species. This initiative represents a significant stride in safeguarding biodiversity within the region by combining the expertise and resources of both institutions. The repository's primary focus is on conserving indigenous plant species of Kerala, ensuring their survival for future generations amidst threats like habitat loss and climate change.



Through hands-on research opportunities, students and researchers from Nehru Arts and Science College will work alongside experts from the Kerala State Biodiversity Board, facilitating scientific documentation and cataloging of rare plants. Moreover, the collaboration emphasizes educational outreach efforts to raise awareness within the local community about the critical importance of biodiversity conservation. This partnership underscores the vital role of collective action in addressing environmental challenges and signifies a proactive approach toward preserving Kerala's invaluable botanical heritage

MEDICINAL GARDEN

College has established a medicinal garden on its campus, showcasing a variety of medicinal plants. This garden serves as an educational resource for both students within the college and visitors from outside. The medicinal plant conservatory comprises more than 100 medicinal plants having diverse therapeutic efficacy. Plants are also provided with display boards. These plants may range from herbs like basil and mint to more specialized medicinal herbs and shrubs. Students studying various courses at the college, such as botany,zoology, polymer chemistry etc , have the opportunity to visit the medicinal garden.The medicinal garden provides an interactive learning environment where students can observe, touch, and smell the plants. Students gain practical knowledge about medicinal plants, their identification, cultivation, and uses. This knowledge can complement their classroom learning and future careers in healthcare, pharmacy, or botany. The medicinal garden is not only for students but also attracts visitors from the local community and beyond.

BUTTERFLY GARDEN

The Zoology Department at Nehru College has established a butterfly garden on campus, showcasing a variety of flower plants. This initiative is considered a best practice within the college, as it not only provides a beautiful and serene environment but also serves as a valuable habitat for butterflies. Butterfly gardens raise awareness about the importance of preserving habitats for pollinators and the need for conservation efforts to protect butterfly species.The garden promotes biodiversity, serves as an educational resource for students studying zoology and ecology, and enhances the overall aesthetic appeal of the campus. It stands as a symbol of the college's commitment to environmental conservation and creating sustainable ecosystems within its premises.

DIGITAL FLORA

Nehru Arts and Science College Kanhangad has successfully implemented QR coding for trees and significant perennial plants across its campus. Each plant now features a QR code affixed to its label. This enables anyone visiting the campus to conveniently scan the QR code using their smartphone's QR code scanner. Upon scanning, the QR code directs them to a specific URL linked to the Campus Flora of NAS College website. Here, individuals can readily access comprehensive information about the plant, encompassing its Botanical Name, Vernacular Names, Family, Brief Description, Uses, Flowering Period, Distribution, Nativity, and Status.

GREEN AUDIT

Nehru Arts and Science College in Kanhangad has emerged as a beacon of environmental stewardship through its comprehensive approach to sustainability, encompassing Green Audit, Energy Audit, Water Audit, Biodegradable Audit, and Hazard Audit initiatives.

The Green Audit program has enabled the College to meticulously assess its environmental impact, fostering a culture of conscientiousness towards resource consumption and waste management. Energy Audit practices have further contributed to the College's commitment to sustainability by identifying opportunities for energy conservation and efficiency improvements.

Moreover, the Water Audit conducted by the College has facilitated the responsible management of water resources, ensuring their efficient use and conservation. The Biodegradable Audit initiative underscores the College's dedication to environmentally friendly practices, promoting the use of biodegradable materials and minimizing waste generation.

In addition, the Hazard Audit program has enhanced the safety and well-being of the College community by identifying and mitigating potential hazards. These collective efforts exemplify the institution's holistic approach to environmental management and conservation.

Furthermore, the Biodiversity Survey conducted by the College has provided invaluable insights into the local ecosystem, guiding conservation efforts and promoting biodiversity preservation.

Nehru Arts and Science College's commitment to sustainability extends beyond mere compliance with regulations—it represents a genuine dedication to environmental stewardship and the well-being of present and future generations. Through its multifaceted approach to sustainability, the College serves as a model for academic institutions striving to make a positive impact on the environment.

KANNUR UNIVERSITY
(NAAC Accredited with B++ grade)
DEPARTMENT OF ENVIRONMENTAL STUDIES
Mangattuparamba Campus
Kannur University (PO); Mangattuparamba, Kannur, Kerala - 670567
Tel: 0497 2781043; E-mail : hodevs@kannuruniv.ac.in

CERTIFICATE

This is certified that this **Environment Audit Report** (Energy audit, Water audit and Green audit) submitted to the Nehru Arts and Science College, Kanhangad is an authentic report of Environmental audit done by the Audit Team of the Department of Environmental Studies of Kannur University at Nehru Arts and Science College, Kanhangad during the period of 20th – 26th March 2022.

Dr. Manoj K
Coordinator
Environment Audit Division
Dept. of Environmental Studies
Kannur University

Head of the Department
(Dr. Pradeepan Periyat)

HEAD
DEPT. OF ENVIRONMENTAL STUDIES
KANNUR UNIVERSITY
MANGATTUPARAMBA, KANNUR
KERALA-670567

Place: Mangattuparamba

Date: 31/03/2022

KANNUR UNIVERSITY
(NAAC Accredited with B grade)
DEPARTMENT OF ENVIRONMENTAL STUDIES
Mangattuparamba Campus
Kannur University (PO), Mangattuparamba, Kannur, Kerala - 670567
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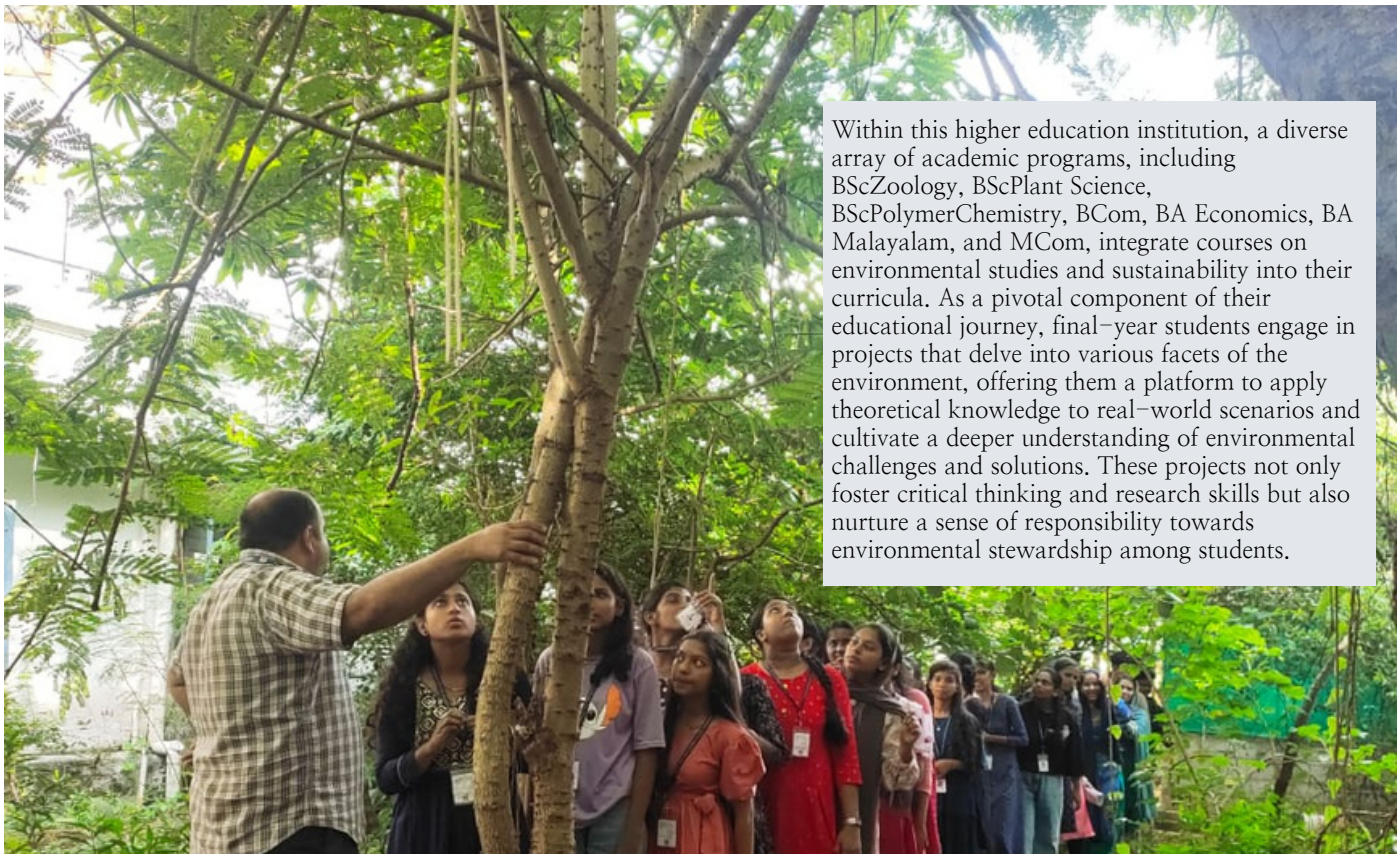
Dr. Manoj K
MANOJ. K
HEAD
Department of Environmental Studies
Kannur University
Mangattuparamba Campus, Kannur
Kerala - 670 567

Place: Mangattuparamba

Date: 25/03/2019

DEPARTMENT OF ENVIRONMENTAL STUDIES
Mangattuparamba
Kannur-670567
KANNUR UNIVERSITY

ENVIRONMENTAL EDUCATION



Within this higher education institution, a diverse array of academic programs, including BScZoology, BScPlant Science, BScPolymerChemistry, BCom, BA Economics, BA Malayalam, and MCom, integrate courses on environmental studies and sustainability into their curricula. As a pivotal component of their educational journey, final-year students engage in projects that delve into various facets of the environment, offering them a platform to apply theoretical knowledge to real-world scenarios and cultivate a deeper understanding of environmental challenges and solutions. These projects not only foster critical thinking and research skills but also nurture a sense of responsibility towards environmental stewardship among students.

In addition to project work, the college organizes workshops, seminars, and field visits centered around environmental themes, enriching students' learning experiences and broadening their perspectives on environmental issues. These academic endeavours provide opportunities for interdisciplinary collaboration, where students from diverse fields come together to explore innovative approaches to environmental conservation and sustainability. By embedding environmental education within the curriculum and providing experiential learning opportunities, the college equips students with the necessary knowledge, skills, and awareness to address pressing environmental concerns. Moreover, these initiatives cultivate a culture of environmental consciousness and activism within the campus community, empowering students to become agents of positive change in their respective fields and communities.

PROMOTION OF NON-FOSSIL FUEL VEHICLES

College has recognized the critical importance of sustainability in reducing carbon emissions and preserving the environment. In alignment with this commitment, the college has implemented policies to promote the use of non-fossil fuel vehicles. These initiatives serve as best practices for environmental sustainability: The college conducts awareness campaigns to educate students and staff about the benefits of using non-fossil fuel vehicles, such as electric vehicles (EVs) and bicycles. College has developed separate parking facilities specifically designated for non-fossil fuel vehicles. These designated parking areas make it convenient for students and staff to park their EVs and bicycles, promoting their use. The promotion of electric vehicles and bicycles helps in preserving the local environment by reducing air and noise pollution.

First and foremost, the college's initiatives are geared towards reducing our reliance on fossil fuels, a vital step in combating climate change. By encouraging the adoption of non-fossil fuel vehicles, the college is taking a significant stride towards curbing carbon pollution, thereby contributing to global efforts to mitigate the impacts of climate change. This move is not just about reducing emissions; it's about actively working towards a cleaner, healthier future for generations to come.

FIELD VISIT

Our institution recognizes the paramount importance of environmental education and awareness in nurturing responsible global citizens. To this end, we have meticulously curated a series of experiential learning initiatives, including field visits, workshops, and nature camps, aimed at enriching students' understanding of environmental issues and inspiring them to champion sustainability efforts. During our field visits, students embark on immersive journeys to diverse ecosystems, ecological reserves, and conservation areas. Here, they engage directly with the natural world, observing firsthand the intricate web of life and the delicate balance of ecosystems. Through encounters with diverse flora and fauna, students gain invaluable insights into the importance of biodiversity conservation and habitat preservation, deepening their appreciation for the beauty and complexity of nature.

In essence, our field visits, workshops, and nature camps serve as transformative educational experiences that empower students to become passionate environmental stewards. By providing opportunities for experiential learning and fostering a deep-seated connection with the natural world, we equip our students with the knowledge, skills, and motivation to lead the charge in conserving the environment and building a more sustainable future for generations to come.

Our workshops provide a dynamic platform for interactive learning and dialogue on pressing environmental topics. Led by expert speakers and facilitators, these sessions delve into issues such as climate change, pollution, and sustainable development, empowering students to critically analyse environmental challenges and explore innovative solutions. Through engaging discussions, students develop the knowledge and skills necessary to address complex environmental issues effectively. Complementing these initiatives are our nature camps and birdwatch initiatives where students immerse themselves in outdoor experiences that foster a profound connection with nature. From hiking through pristine wilderness to nature exploration, these camps instill a deep appreciation for the intrinsic value of natural resources and ecosystems. Also, the avifauna observation initiative instilled cognizance regarding ecosystem dynamics and biodiversity amidst the student community. Moreover, they cultivate essential life skills such as teamwork, leadership, and environmental stewardship, as students collaborate to address conservation challenges and implement sustainable practices.

EVIDENCE OF SUCCESS

- Nehru Arts and Science College has been awarded an A+ grade by Haritha Kerala Mission, an initiative of the Government of Kerala, in recognition of its outstanding efforts in water conservation, energy conservation, biodiversity conservation, and waste management. The college's commitment to adhering to the green code of conduct has enabled it to impart valuable lessons in environmental stewardship to society at large.
- The "SOURA Project" is a cutting-edge 100 kWp solar plant on our rooftop, created in partnership with KSEB and the esteemed Government of Kerala, with a budget of 45 lakhs. It generates 440 kWh of pristine green energy daily, with 10% allocated for internal use and the majority benefiting the citizens of Kasaragod district, showcasing our steadfast dedication to social responsibility.
- The NCC unit of Nehru Arts and Science College Kanhangad organized Swachh Bharath program on every year at the premises of the college.The cadets of NCC unit removed plastic waste materials from both sides of college to ayurvedic hospital road on 2nd october 2023 as part of Swachhatha Pakhwada. Cadets Collected 15 sack full of plastic wastes. 40 Cadets (SD15 SW25) and ANO participated in the programme.
- On October 1st, 2023, the NSS Units 4 and 5 of Nehru Arts and Science College joined forces to organize a cleaning drive at Kanhangad Railway Station. This collaborative effort aimed to enhance cleanliness and promote a hygienic environment in the community. The commendable service rendered by the NSS Units garnered attention and recognition from the Government of India's Swachhatha Hi Seva initiative. As a token of appreciation for their meritorious contribution to the cleanliness drive, NSS Units 4 and 5 were honored with a certificate of appreciation. This recognition not only acknowledges their dedication to the cause but also serves as a testament to their commitment to social responsibility and community service.
- The endeavors of the institution to embrace eco-friendly practices have instilled sustainable habits within the campus community, and subsequently, the broader world, as indicated by the following measures.
  - The Environment Audit Report, which encompasses Green Audit, Energy Audit, and Water Audit, unequivocally demonstrates the significant contributions of the college towards environmental, energy, and water conservation. This audit is conducted by the Department of Environmental Studies at Kannur University.
- Every year, the NSS units of Nehru Arts and Science College in Kanhangad actively participate in a range of community service activities. These include cleaning public spaces in Padenakat and maintaining the cleanliness of the college premises. Additionally, the NSS units are involved in planting saplings to contribute to environmental conservation efforts. They also dedicate time to cleaning the seaside and engaging in activities aimed at the conservation of turtles, demonstrating a commitment to both environmental sustainability and community welfare. Through these annual initiatives, the NSS units play a crucial role in fostering a sense of responsibility towards the environment and promoting civic engagement among students.

PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED

The implementation of best practices at Nehru Arts and Science College encountered several challenges while also requiring specific resources. Resistance to change posed a significant obstacle, particularly concerning the adoption of policies such as the ban on single-use plastics and the transition to non-fossil fuel vehicles. Overcoming this resistance necessitated extensive awareness campaigns and educational initiatives. Additionally, financial resources were crucial to cover the upfront costs of implementing energy-efficient LED lighting and waste management systems. Access to skilled professionals or training programs was also essential for installing and maintaining these systems. Adequate infrastructure for waste segregation, recycling, and composting was another requirement, along with strict enforcement mechanisms and monitoring systems to ensure policy compliance. Promoting the use of non-fossil fuel vehicles demanded infrastructure development, incentives, and awareness programs. To address these challenges effectively, Nehru Arts and Science College needed financial support, technical expertise, training and education programs, and strategic partnerships. With these resources in place, the college could successfully implement green campus policies and promote sustainability initiatives.

PHOTOS

Handing over steel glasses to the college authorities by NSS

Planting mango saplings in the campus

Bird watching programme

Exploring the medicinal garden with students

NCC cadets cleaning public spaces

NSS cleaning the seaside

Conservatory of Rare, Endemic, Endangered and Threatened Plants

NSS cleaning the seaside

Construction of "Thadayana" by NSS

Inauguration of the Khadi wearing campaign

College students handing over cultivated mushrooms

planting mangroves saplings on the banks of Nileshwar river

NEHRU ARTS AND SCIENCE COLLEGE KANHANGAD

P.O. Padnekat | Kasaragod Dist. | Kerala - 671314

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