



**DEVASWOM BOARD COLLEGE
THALAYOLAPARAMBU**
(Affiliated to Mahatma Gandhi University, Kottayam)

CRITERION VII

INSTITUTIONAL VALUES AND BEST PRACTICES

Submitted to
The National Assessment and Accreditation Council
(NAAC)
February 2024



Midayikunnu P.O.Thalayolaparambu, Kottayam, Kerala - 686605

7.1.2 GREEN CAMPUS INITIATIVES

Nature club conducts talks and awareness programmes on Nature and Natural resources, dedicatedly involving in improving campus beautification and engaged in cleaning programmes

The programmes organized in the institutional campus included **Environmental sustainability campaigns, Waste management initiatives, Energy conservation strategies, Water conservation projects, Carbon footprint reduction efforts**

ENVIRONMENTAL SUSTAINABILITY CAMPAIGNS

Awareness campaigns serve as powerful tools to engage individuals and communities, catalysing positive behavioural changes and promoting environmentally responsible practices. Awareness campaigns on environmental sustainability serve as catalysts for positive change, empowering individuals and communities to embrace sustainable lifestyles and contribute to a healthier, more resilient planet. Every year various days had been celebrated in the institution to foster the sense of collective responsibility to safeguard our planet Earth. The diverse projects undertaken by the institution come under the following heads.

- **Celebration of DAYS and Tree Planting Initiatives**
- **Awareness campaigns, Talks and Exhibitions**
- **Extension Activities**
- **Field visits**
- **Competitions**
- **Enumeration of trees, Biodiversity audit, and Conservation efforts**
- **Organic Farming practices**

WASTE MANAGEMENT INITIATIVES

- **Environmental sanitation initiatives**

ENERGY CONSERVATION STRATEGIES

WATER CONSERVATION PROJECTS

CARBON FOOTPRINT REDUCTION EFFORTS

ENVIRONMENTAL SUSTAINABILITY CAMPAIGNS

- **CELEBRATION OF DAYS AND TREE PLANTING INITIATIVES**

2022-23

Department of Botany celebrated the World Environment day on June 6th 2022 by planting medicinal plants in the herbal garden and college Premises. The students actively participated in the event by collecting the various medicinal plants and planting them. The programme was inaugurated by Dr. R Anitha, Principal DB college who motivated the students to care for the valuable medicinal herbs in and around us. Dr. Beenamol KP, Vice principal, DB college, teachers of Botany and Zoology Department and the laboratory staff also participated in the event.



Planting the seedling at *Nakshathra*vanam and at college premise



**Students from Commerce Department engaged in
Ground preparation and planting of saplings**



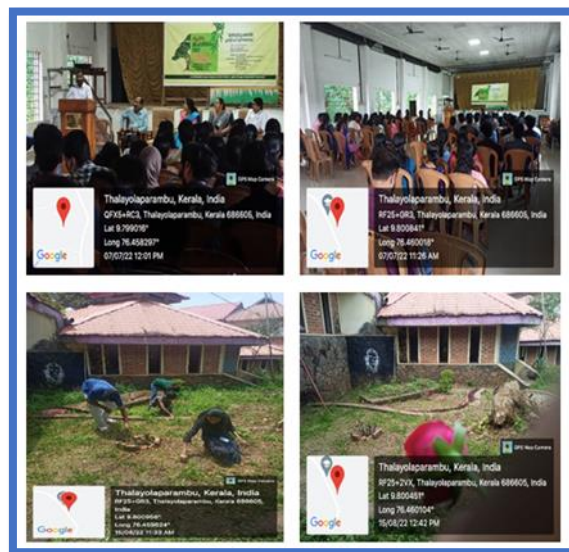
Students of Botany Department planting herbals at Herbal Garden





Students of Department of English engaging with Environmental promotional activities

On 07/07/2022, Bhoomithrasena Club & Biodiversity Club of Devaswom Board College in partnership with Kerala Social Forestry, launched Institutional Planting. The inaugural session was followed by celebration of **“Vana Maholsavam”** a people’s participation series. Hundreds of saplings were planted in the campus as a collaborative work with NCC.





NCC cadets engaged in planting of seedlings

World Environmental day was celebrated by planting trees in the college campus on 5th June 2018. The students of 2017-18 batch brought saplings of trees and planted them in the college premises.

The trees planted included *Psidium guajava*, *Cassia fistula*, *Mimusops elengi*, *Terminalia arjuna*, *Artocarpus heterophyllus*, *Azadirachta indica* etc. Inauguration of the event by done by Dr. R Anitha by planting a *Cassia fistula* sapling.



Environment day celebration2021-22 by Bhoomitra Sena Club

• **AWARENESS CAMPAIGNS, TALKS AND EXHIBITIONS**

NSS coordinated with Kottayam legal services society for a seminar on Legal awareness on environmental issues

NSS conducted a seminar on Legal awareness on environmental issues. The resource person was Advocate Feba Elma Varghese. The resource person categorically informed students that apart from the constitutional mandate to protect and improve the environmental conditions, there are a series of legislations are available on the subject but more relevant legislations for our purpose are the Forest [Conservation] Act, 1980; the Water [Prevention and Control of Pollution] Act, 1974; the Wildlife [Protection] Act, 1972; the Environment [Protection] Act, 1986; the Air[Prevention and Control of Pollution] Act, 1981; the National Environment Tribunal Act, 1995; the National Green Tribunal Act, 2010; the Biological Diversity Act, 2002 and the Hazardous Wastes [Management and Handling] Amendment Rules, 2003 etc are there as legal protection to safe guard our environment

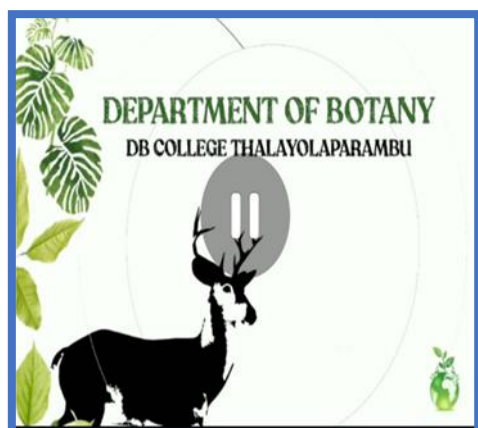


Save Environment: Save Biodiversity campaign

Organized by Biodiversity Club and Department of Botany

World environment day was observed on June 6th by organizing an awareness campaign through various social media platforms based on the theme “Save Environment: Save Biodiversity. Students shared videos and images to alert the public on the risks faced by biodiversity like habitat fragmentation, species extinction etc. By this effort, students were able to communicate the need of biodiversity conservation to the society at large

Brochure for the programme



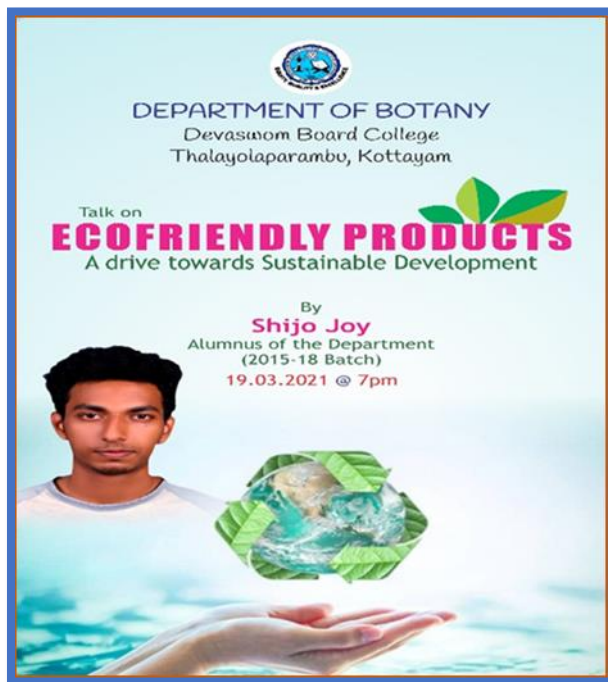
Screen shots of Video prepared and promoted on social media platforms in connection with World Environment Day celebrations at the time of Covid Pandemic

SPECIAL LECTURE ON

ECOFRIENDLY PRODUCTS -A DRIVE TOWARDS SUSTAINABLE DEVELOPMENT

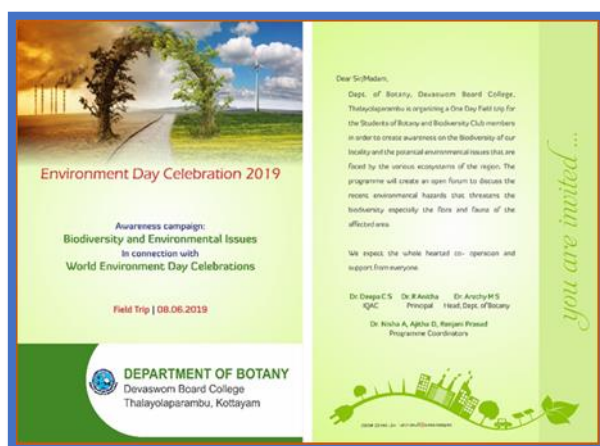
Department of Botany organized a Talk on ‘Ecofriendly Products- A drive towards Sustainable development’ on 19/3/2021. The speaker of the session was Mr. Shijo Joy, Alumnus of the Department. Mr. Shijo shared the research experience of making biodegradable straw using Plant materials and gave an account of the plants screened and techniques adopted for straw preparation. The speaker stressed the importance of such biodegradable straws over the

conventional plastic straws which caused considerable environmental pollution. 75 UG students attended the webinar.



2019-20

AWARENESS CAMPAIGN: BIODIVERSITY & ENVIRONMENTAL ISSUES



World Environment Day was celebrated by carrying out an Awareness Campaign named “Biodiversity and Environmental issues” on the 8th of June 2019. A field trip was jointly organized by Dept. of Botany and Biodiversity Club for both Botany students and members of Biodiversity Club which has given an opportunity for students to directly observe the habitat

diversity and species diversity existing among the flora and fauna of the study areas. They also witnessed the degradation of certain ecosystems due to natural hazards as well as anthropogenic influences. 36 students participated in the programme.

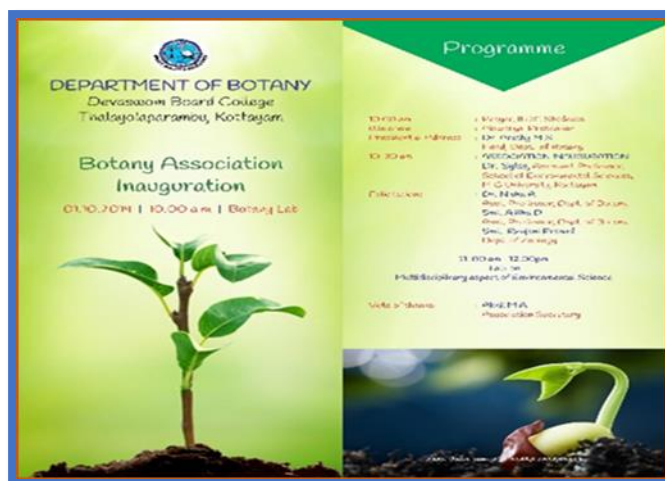
SPECIAL LECTURE ON GLOBAL ENVIRONMENTAL ISSUES: POLICIES AND CHALLENGES



A lecture on the topic ‘Global Environmental Issues: Policies and Challenges’ was jointly organized by Department of Botany and Breakthrough science Society on 24th September 2019. The speaker of the session was Sri. P N Thankachan, Rtd. Faculty, RIT Pampadi, Kottayam. This was an interactive session which addressed the impact of environmental hazards on human societies. The lecture benefitted the students and helped to inculcate a sense of environmental consciousness in them.

SEMINAR ON MULTIDISCIPLINARY ASPECT OF ENVIRONMENTAL SCIENCE

A state level seminar was organized by the Botany association on ‘Multidisciplinary aspect of Environmental Science’ on 1/10/2019. The session was handled by Dr Sylas, Assistant Professor, School of Environmental Sciences, M G University, Kottayam. The main objective behind the conduct of the programme was to create an awareness among the students on the importance of environmental conservation and sustainable development. These topics are clearly envisioned in the curriculum for under graduate students of all disciplines. Through the talk the speaker was able to inculcate the idea into the participants. 82 students attended the seminar and was benefitted from the programme.



Nature Club celebrated “World wetland day” in association with KSCSTE. College Principal, Dr. R. Anitha, inaugurated the function. As part of the programme a talk by Dr. V. P. Syllas, School of Environmental Science, Mahatma Gandhi University, was held. He talked about climate change, importance of wetlands, destruction of wetlands and the importance of protecting wetlands around the globe and more importantly in our neighborhood. More than 100 members actively attended the function.



Wetland Day celebrations



Slide show by Co-ordinator Ms. Saritha K M



- **EXTENSION ACTIVITIES**

**Paper Bag Distribution as a part of eliminating Plastic
Socially Responsible awareness Programme on 06-08-2018 by Students of Commerce
Department**

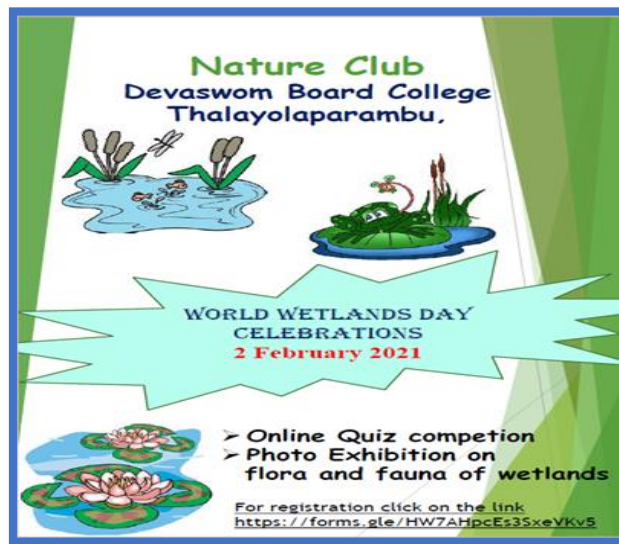


- **TALKS AND EXHIBITIONS**

BhoomitraSena club observed Karshaka dinam by organising an Exhibition of agricultural
Implements

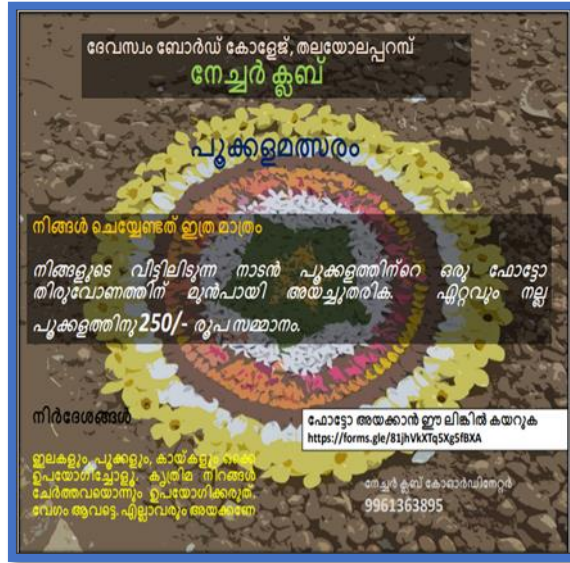


Photo exhibition by Nature Club on Birds of Wetlands



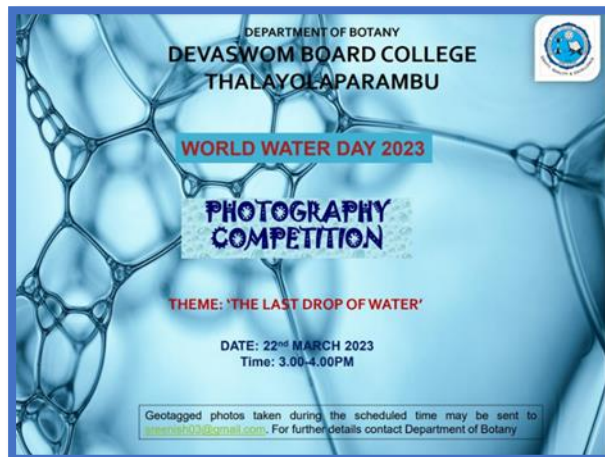
Nature Club Celebrated World Wetland Day by conducting Quiz competition (Online) and Photo exhibition on Flora and Fauna of Wetlands

• **COMPETITIONS**

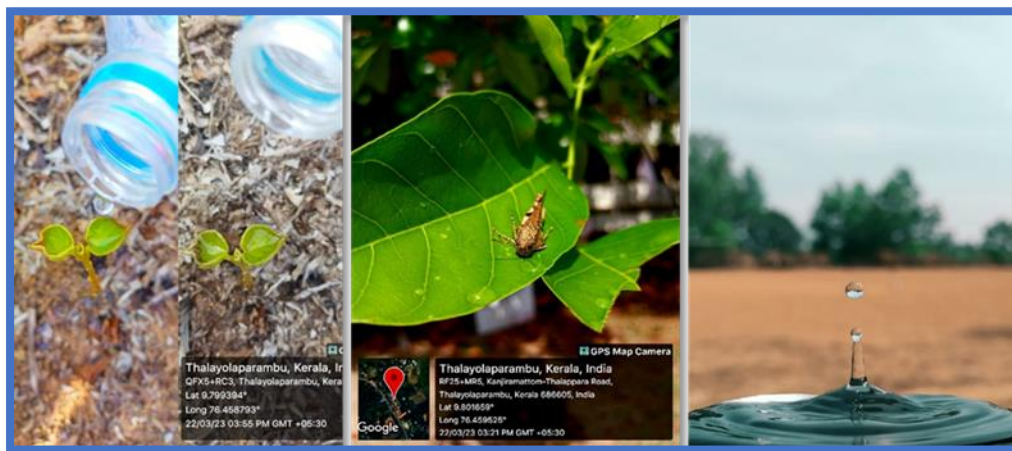


Competition on Floral Carpet designing
Organized by Nature Club

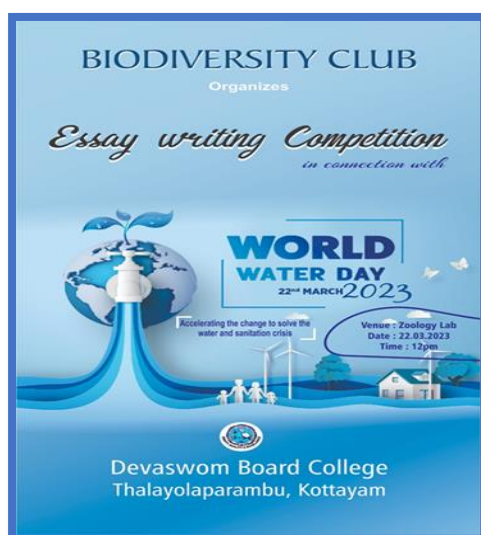
World water day is celebrated each year to focus attention on the importance of freshwater and advocating for the sustainable management of freshwater resources. Department of Botany celebrated the ‘**World Water Day**’ on 22nd March 2023. To highlight the significance of water a **photography competition** was conducted for the students of Devaswom Board College. The topic assigned for the competition was ‘The last drop of water’. Students participated in the event by taking photographs apt for the theme. Jyothika Rajeev (2nd DC Botany), Amal PS (3rd DC Botany) and Sanjay Sabu (3rd DC Malayalam) secured the first, second and third positions respectively.



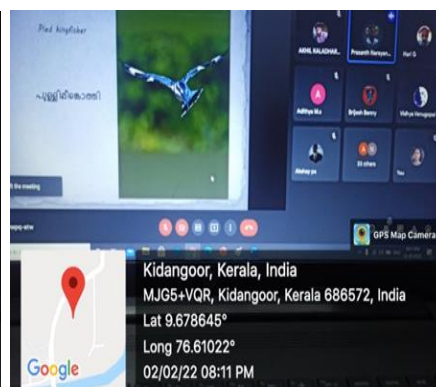
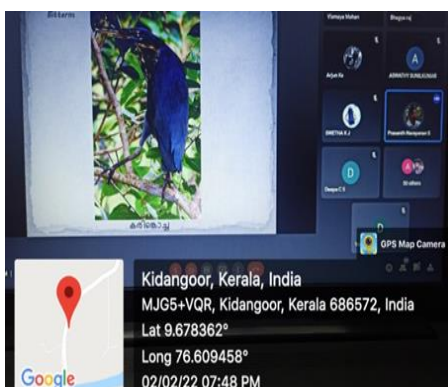
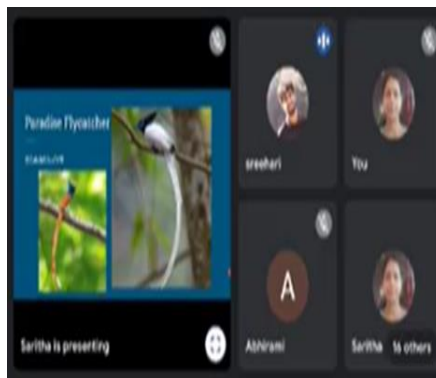
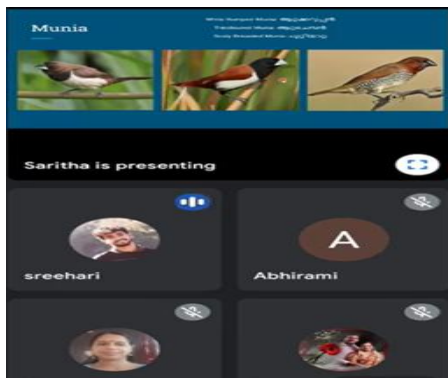
Prize winning Photos



Biodiversity club organized **Essay writing competition** on 22nd March 2023, in connection with World Water Day. 15 students registered for the competition. In their writings, the participants expressed the problems of water shortage and difficulties faced during summer season mentioning about the measures to be adopted to handle the crisis.



Mobile photography competition -on line-organised by Bhoomitrasena Club



Environment week celebrations organized by Department of Physics



Prakriti Inter-department Poster Competition

The department conducted an inter-department poster competition on 'Man and Mother Earth' as part of Environment Week celebrations, titled 'Prakriti'. Overwhelming participation followed and prizes were awarded. Padma T Appukkuttan of English Department bagged the first prize, Binoy and Sabarinath of the departments of Maths and Botany shared the second prize and Greeshma Gireesh of the Department of Politics was awarded the third prize.



KSCSTE funded Ozone Day celebrations and competitions

The International Day for Preservation of Ozone Layer 2019 was observed on 18th of September 2019 by conducting various programmes at the Seminar Hall of Devaswom Board College, Thalayolaparambu. A talk by Shri John Richard Thomas, Film Show, Interschool Quiz Competition, Inter departmental Poster Competition were all held as part of ozone day celebrations. The celebrations were organized by department of chemistry with the support of Kerala State Council for Science, Technology and Environment



KSCSTE funded Science Day

National science day 2020 (NSD 2020) was celebrated with enthusiasm and vigor by conducting several programs in Devaswom Board College, Thalayolaparambu Kottayam. The celebration was inaugurated by Dr Mary Metilda former Principal Maharajas college Ernakulam on 25th February 2020. The celebrations were organized by department of chemistry with the support of Kerala State Council for Science, Technology and Environment and sponsored by Department of Science and Technology, Gov. of India. There were competitions for college students and school students. Quiz competition for school students and poster competition for college students were the activities conducted for Science day.



A quiz competition by Nature Club in the year 2019-20



A debate competition was held and the motion of debate was “Environmental exploitation is necessary for development”.



Competitions in association with Environment day celebrations

Online mode

A poster for World Environment Day Celebrations-2020. The poster is blue and white with a collage of environmental images on the right side. It contains the following text:

World Environment Day Celebrations- 2020

“Nature Club”
Devaswom Board College,
Thalayolaparambu

is celebrating
World Environment Day, 2020
As a part of the celebrations we are
conducting competitions for
college students using online
platforms.

Mobile Painting Competition:
Theme- Biodiversity
Send your mobile paintings to
natureclubdc@dbc.collegethalrajia
Last date-7th June 11.59 pm.

Quiz competition
Main Subject- Environment
College students can register for quiz
competition using the link given
below.
<https://forms.gle/eCaDrcobrlRvw9Eg7>
Time: 11AM, 7th June, 2020

Contact No: 9961363895

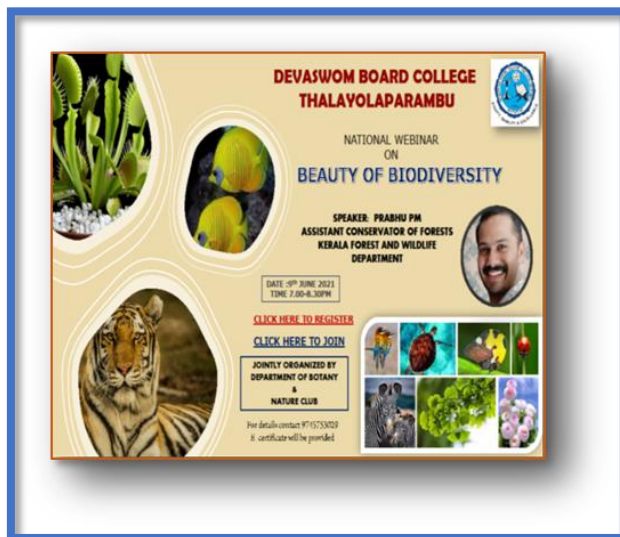
Only for
College
Students

Online quiz
competition and
mobile painting
competition

First prize: Rs: 500/-
Second Prize: Rs:
300/-

BIODIVERSITY CONSERVATION INITIATIVES

NATIONAL WEBINARS TOPIC: BEAUTY OF BIODIVERSITY



A National Webinar was jointly organized by Department of Botany and Nature Club on June 9th. Sri. Prabhu P M, Assistant Conservator of Forests from Kerala Forests and Wildlife Department handled the session on Beauty of Biodiversity. The speaker could deliver the talk on biodiversity and its beauty in a quite different way with beautiful presentation of photographs that reflected minute aspects of nature's beauty. This created great enthusiasm among the participants and conveyed the necessity of urgent conservation efforts for sustaining this wealth.

TOPIC: BUCKING THE BIODIVERSITY CRISIS: WHY DO PEOPLE NATURE LINKAGES MATTER?



On 14.06.2021, a National Webinar was conducted as part of Medha Webinar Series. This was jointly organized by Department of Botany and IQAC. Dr Dhanya Bhasklar, Associate Professor (Ecosystem and Environment Management) & Chairperson, Centre for Policy Studies, IIFM, Bhopal, Madhya Pradesh was the resource person who talked about the most relevant aspect of environmental management of the present scenario, *Bucking the biodiversity crisis: Why do people nature linkages matter?* The webinar intended to communicate the strategic change in nature and forest conservation and the role of IIFM in making it an effective one. It also provided a general information on the activities of the institute such as educational training, research, consultancy services and skill development programmes conducted for youngsters so that they could adopt conservation related careers.

TOPIC: BIODIVERSITY conducted by Malayalam Department

A biodiversity seminar was held in collaboration with the State Biodiversity Board. Classes were conducted by many eminent persons on the topic of roll of ritual arts in environmental protection. Moreover, the Pazhoor Girijan and their team gave a performance.



Activities of Biodiversity Club

- Enumeration of trees in the Campus, Documentation and Generation of QR Code

Enumeration and identification of trees in the campus by Biodiversity Club members.



Undergraduate students of Botany, as members of the club, were given the task of documenting the details of tree cover across the campus to create a comprehensive inventory for future reference. The audited data on tree cover was later released as Newsletter named '*PALASHA*'

DEVASWOM BOARD COLLEGE
Thalayolaparambu
Affiliated to
Mahatma Gandhi University, Kottayam
NACC Re-Accredited B+Grade

palasha
Greenness



NEWS LETTER by Biodiversity Club, Devaswom Board College, Thalayolaparambu

വായുനാൽ ഇഹരീഹാകാഹ വൃക്ഷഭാഹാ രോഗ്യാനാശപാഹാർകാഹ
താദൃശാദ് രോപനമേതേഭാഹ രക്ഷണാൽ താ ഹിതാവഹാൽ

*(Trees purify the air and are helpful in driving away diseases.
Therefore, the planting and protection of trees is beneficial for all living beings.)*

Message



Dr. R Anitha
Principal

Congratulations on your awesome initiative as a responsible citizen of the planet earth, our mother earth to enumerate the ecosystem around you. The biodiversity club has proudly and aesthetically conducted a green audit of the campus trees under the banner of green initiative and sustainable management of environment. May our "Haritham" tribe gain in eco-consciousness, and look out for its own and its posterity. May pictures speak louder than voice. My heart-felt gratitude to the editors - Dr. Arathy M S and Smt. Ajitha D and the members of the club for walking ahead of all others through the news letter "Palasha"

Best wishes,

Ajitha D
Sd/-

Asakyam prakrthe ruthe jeevanam

- **Biodiversity audit and Conservation efforts**

Another project undertaken by the club involved generating QR codes to facilitate easy access to information about individual trees, enhancing accessibility and promoting knowledge dissemination within the campus community.

Through diligent efforts, the club members were able to publish an article detailing the diverse butterfly population present within the campus. This research has resulted from the collaboration between Biodiversity Club and the Department of Zoology, Baselius College, Kottayam. The article on butterfly diversity of campus entitled *Lepidopteran diversity of Devaswom Board Campus- A preliminary study* was published in the Journal of dbct, a biannual, peer-reviewed journal with ISSN number.

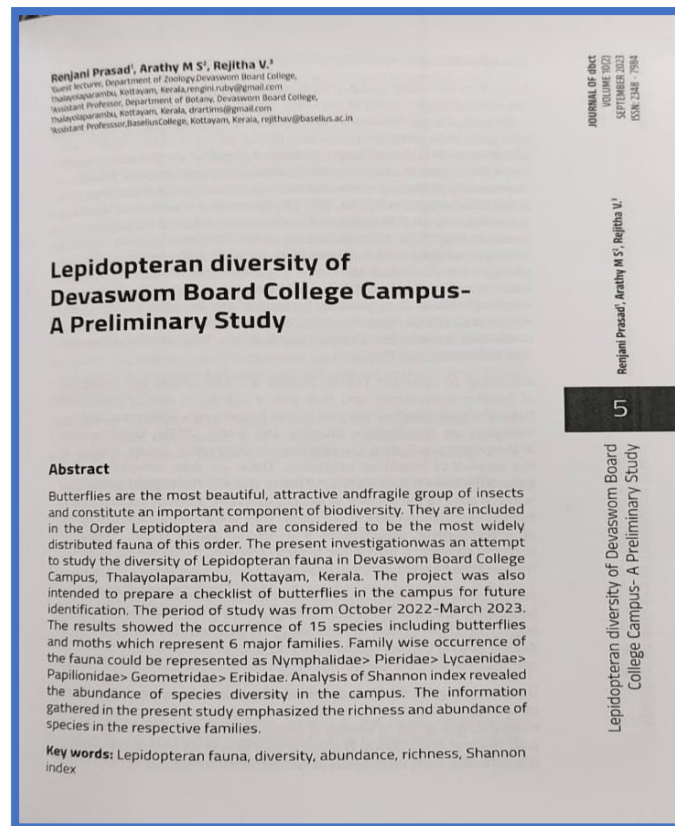
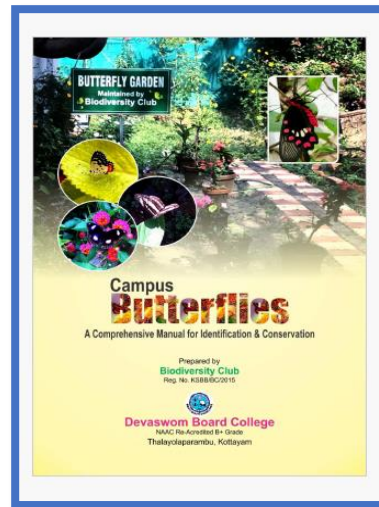


Image of Research Article published in the Journal

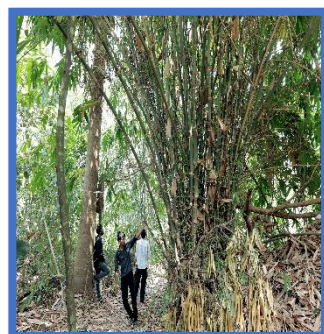
A comprehensive manual for Identification and Conservation of Butterflies has also been released



BUTTERFLY GARDEN



SHANTI STHALL



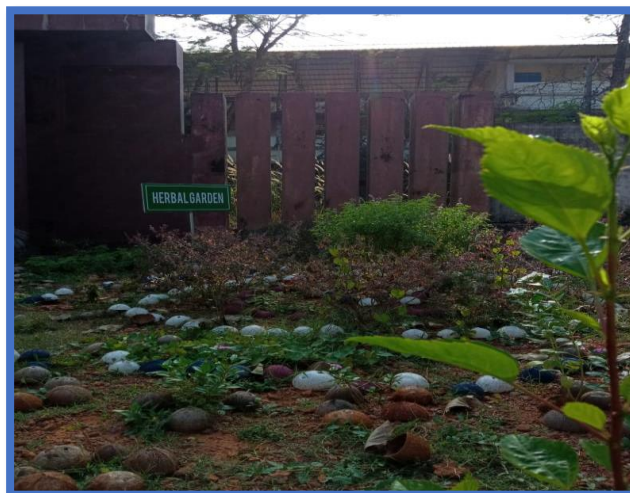
BHOOMITRA SENA CLUB & PACHATHURUTHU



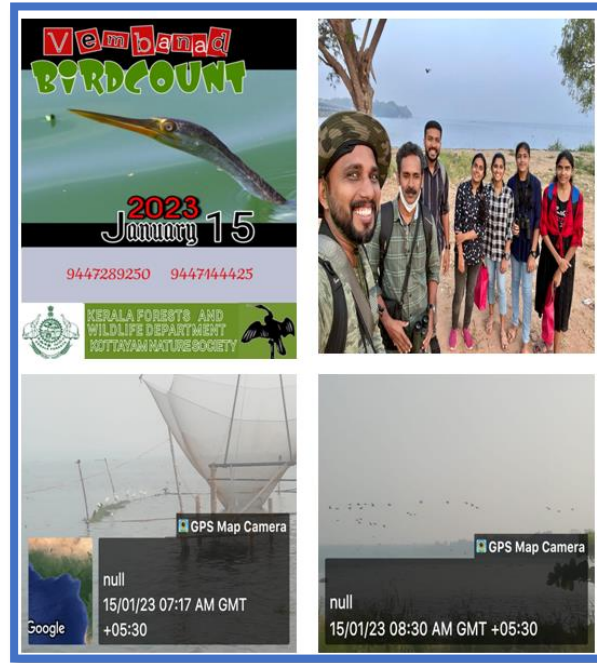
FERN HOUSE



HERBAL GARDEN



Vembanad Water bird count” on January 15, 2023 organized by Kerala Forest and Wildlife Department and Kottayam Nature society.



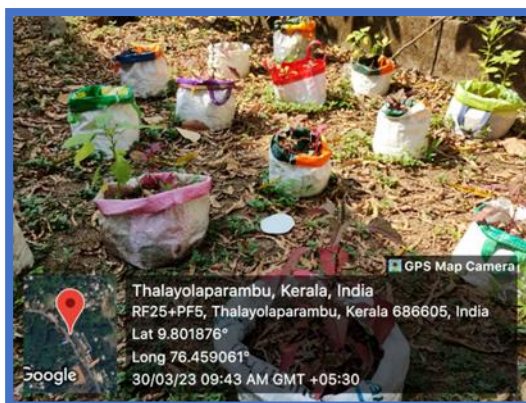
- **Organic Farming practices by Students of Department of Botany and NSS Volunteers**





Sack Farming

In collaboration with Bhoomitrasena Club, Department of Chemistry started sack farming to inculcate the idea of self-sustainability and organic farming. Third year B.Sc. students participated in the programme.



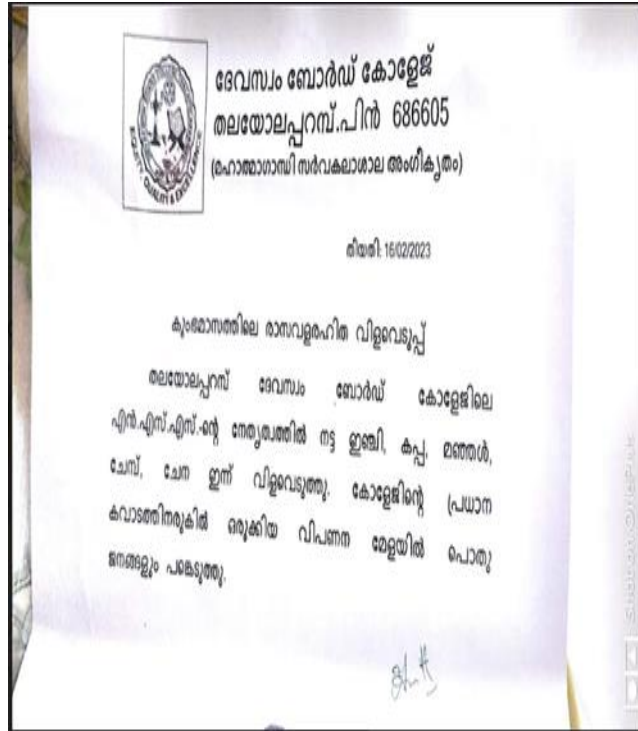
Setting up a garden with various crops/vegetables with a theme of " Youth for Healthier Environment".

As part of Youth for Healthier Environment" programme, NSS Unit planted tapioca, Plantains, Ginger, Colocasia, Yams and turmeric in an area of 50 cents and to maintain, preserve support and upkeep of crops/vegetables garden named as "**Pachathuruthu**". Principal Dr R Anitha inaugurated the event by sampling one tapioca.



Translated

Letter from the NSS programme Co-ordinator (Dr E N Sivadasan) Mahatma Gandhi University, seeking permission for practicing Organic farming by the NSS Unit of the College in the unused land under Devaswom Board College Thalavolaparambu



Translated

The NSS unit, Devaswom Board College had cultivated vegetable crops like Ginger, Tapioca, Turmeric, Yam and Colocasia in the college premises had been successfully harvested by the volunteers had been sold to the public

Organic farming practice by NSS: the yield is kept for sale to the public



WASTE MANAGEMENT PRACTICES

- **Environmental sanitation initiatives**

Date November 27 2021

NSS volunteers cleaned Jetty and temple premises after Vaikathashtami. It is the festival extending for 12 days and 12th day is Vaikathashtami. It is celebrated on the day of Krishna Ashtami. Students happily shared the legend of Vaikathashtami. The legend behind this festival is that years ago a saint man named Vyaghrapada prayed to God Siva for years after many years God Siva and his wife Parvathy Devi appeared in front of him. It is believed that God Siva appeared in front of him in the day of Krishna Ashtami. So as a memory of this Vaikathashtami is celebrated.

All Newspaper reported this activity of NSS volunteers with much appreciation as they participate in the waste dumping and management after when a huge crowd dissipates



NSS volunteers cleaning Vaikom beach



NCC cadets cleaning Community Health Centre



Campus cleaning by NSS volunteers after covid lockdown



Cleaning activities by Bhoomitra Sena members

DEVASWOM BOARD COLLEGE
THALAYOLAPARAMBU
NSS UNIT

ഐബിനാർ
ON
“അജൈവ മാലിന്യ
സംസ്കരണം”



DATE 27-01-2021
TIME 1 30 PM
PLATFORM GOOGLE MEET
RESOURCE PERSON



NIRMLA PADMANABHAN

Webinar on “Ajaiva malinya samskaranom”. Dr. Nirmla Padmanabhan. She extended help regarding making bags from old cloths and waste materials as a green protocol

Management of degradable waste by incinerator and Food waste by Biogas plant and Vermi compost pit



Non degradable waste like plastic is handed over to



ENERGY CONSERVATION STRATEGIES

As an energy conservation measure, non-conventional energy usage is being practiced in the campus. Administrative block functions with this energy when there is lack of power supply.



LED tubes and bulbs

Food waste generated in the campus is used for regenerating biogas which is utilized in the chemistry lab



WATER CONSERVATION EFFORTS

Rain water from the roof top of Academic Block 3 is conserved in the tank of capacity



Steps taken for Reduction og Carbon Foot print

Tree planting initiative

Use of incinerators

Car -pooling is practiced by staff of the institution