

BHOOMITHRA SENA

Annual Report

2023-24



MAHARAJA'S COLLEGE

Ernakulam

(A Government Autonomous College)

Kochi-682011, Kerala



ANNUAL REPORT 2022 - 2023

Bhoomitra Sena

Maharaja's College, Ernakulam

E-mail ID – bhoomitrasena@maharajas.ac.in

Website – <https://maharajas.ac.in/index.php/content/index/bhoomithrasena>

 YouTube - <https://youtube.com/@bhoomithrasenamaharajascollege>

Cover photo: Pleurotus mushroom cultivated by Bhoomithra Sena members

PREFACE

I am happy to present before you the Annual Report comprising of various activities taken up by the Bhoomithra Sena of Maharaja's College during the academic year 2023-24. Various activities taken up by the Club have been documented in this Annual Report. Major activities of the club include tree plantations, Neelakurinji photo exhibition, Soil exhibition, Poster presentation competition, Mushroom cultivation, Visit to a wetland, Bird watching, student academic dissertation work. I thank, Dr. Jomy Augustine, former Head of the Department of Botany at St. Thomas College, Pala and a renowned environmentalist for helping us to host Neelakurinji photo exhibition. Memorable photographs of the *Strobilanthes* (Neelakurinji) plants along the Western Ghats captured by a senior researcher Dr. Jomy Augustine over the past three decades were on display. I extend my gratitude to Sri. Abin Joseliph, Research Scholar, Sacred Heart College, Thevara, expertised in Biodiversity monitoring and assessment (Birds and Butterflies) for guiding our students in bird watching during the visit to Kadamakudy wetland. I thank Dr. Stephen Sequeira, Assistant Professor of Botany for guiding our members in Mushroom cultivation. I would like to express my sincere gratitude to the support provided by Dr. Shajila Beevi S., Principal- Maharaja's College, Dr. Pooja Balasundaram, Vice Principal- Maharaja's College, Heads of all the departments, colleagues and all student members for their support and co-operation. I would also like to place on record the co-operation and support received from Dr. Neena George (Assistant Professor of Chemistry), Dr. Jaseela F (Assistant professor of Botany), Dr. Sreelakshmi S. K. (Assistant Professor of Malayalam), Dr. Sathish Kumar Kandoth (Assistant Professor of Sanskrit), Dr. Venugopal B. (Assistant Professor of Chemistry), Ms. Manisree T (Assistant Professor of Islamic History), Mr. Abdul Rasheed K S (Assistant Professor of Arabic) and student coordinators for actively implementing various activities of the Club.



Dr. Shanti Vasudevan C. N.
Faculty In Charge of Bhoomithra Sena &
Assistant Professor of Botany
Maharaja's College, Ernakulam.





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1. INTRODUCTION

Directorate of Environment & Climate Change (DoECC), Govt. of Kerala had launched the 'Bhoo Mithra Sena' programme at college level for strengthening the environmental commitment of students in the State. Now it is extended to Higher Secondary Schools in the State as well. The Club aims at utilizing the enormous manpower available with the students to understand, protect and conserve the environment because they form the most important community having influence both in the family and in the society without any vested interests. Bhoomithra Sena was formed in Maharaja's College as per sanction Order No: D.O.E.C.C/E1/2704/2019 of Directorate of Environment and Climate Change, Govt. of Kerala, dated 26.09.2021.

Objectives:

- To encourage the students to appreciate environment and environmental issues of the locality
- To provide environmental education opportunities for students and involve them in addressing environmental issues of the locality
- To utilize the enormous manpower available with students as conduits for awareness of the society
- To make students practice and advocate sustainable lifestyles
- To improve the overall environmental quality of the institution



2. CLUB MEMBERS

Faculties In Charge:

As per Order No. B 5-5023/2023 (XXXIII) dated 20/09/2023 of Maharaja's College.

➤ **Co ordinator**

Dr. Shanti Vasudevan C. N. (Assistant Professor of Botany)

➤ **Members:**

Dr. Neena George (Assistant Professor of Chemistry)

Dr. Sathish Kumar Kandoth (Assistant Professor of Sanskrit)

Dr. Venugopal B. (Assistant Professor of Chemistry)

Ms. Manisree T (Assistant Professor of Islamic History)

Mr. Abdul Rasheed K S (Assistant Professor of Arabic)

Dr. Jaseela F (Assistant professor of Botany)

Dr. Sreelakshmi S. K. (Assistant Professor of Hindi)

Student registration:

Interested Student members were asked to register via flyer & google form link:
<https://docs.google.com/forms/d/1tUXcuk79TC6B5-iBeeUOABA89AeWZc5GaIA84DisIYA/edit>

A total of 70 students from various departments like Hindi, Economics, Mathematics, Physics, Islamic History, B.Com., Philosophy, Botany and Zoology registered as club members. Following is the list of active student members.

Student Coordinators:

- i. Rinshana V. (2nd BA Politics)
- ii. Ansil K A (1st B.Sc. Zoology)
- iii. Soorya K (1st B.Sc. Physics)

Registered active Student Members:

NAME	Admn. No.	Sex	Class	Dept.	Year of passing
Rinshana V	9537	Female	BA	Political science	2025
Soorya K		Female	BA	Physics	2026
ASMILA M	10596	Female	BA	History	2026
Afiya Lulu K.T	10543	Female	BA	Malayalam	2026
RAMIS M.R	8472	Male	Bsc	Physics	2024
Ansil K A	11072	Male	Bsc	Zoology	2026
Nourin Rehman.K	10649	Female	BA	Economics	2026
Hishma Asya M P	10265	Female	BA	English	2025
Shahana jasmin ap	10538	Female	BA	History	2026
Swathi P	9784	Female	B.Com	commerce	2025
Anusree k	11159	Female	Msc	Botany	2025
Nithin Nandakumar	11162	Male	MSc	Botany	2025
Athul remesh	11536	Male	Bsc	Botany	2026
Varsha Rajesh	10947	Female	Bsc	Botany	2026
Naivedya J	10718	Female	Bsc	Physics	2026
ARYANANDA P P	11134	Female	MSc	BOTANY	2025
Amrutha Vijayan	11048	Female	Bsc	Botany	2026
Sreenandha babu	10606	Female	Bsc	Botany	2026
Sreelakshmi N S	11016	Female	Msc	Botany	2025
Devika M S	10535	Female	Bsc	Botany	2026
Anna Saju	11172	Female	MSc	Botany	2025

3. ACTIVITIES

3.1. Tree plantation on World environment day celebrations

Bhoomithra Sena in association with Nature Club organized fruit tree plantation drive. June 5th to June 9th was observed as Environment week. About 100 fruit tree saplings (Pomegranate, Chikku, Guava, Jackfruit) were provided by the Social Forestry, Perumbavoor, Kerala Forest Department. Smt. Padmaja Menon (Division Councillor), Smt. Ranjini S. (Zilla Coordinator, Karmapadhadi-2), Sri. Adv. M. K. Sasindran (Kerala Kavi Samajam) were present during the inaugural function.



3.2. Neelakurinji Photo exhibition

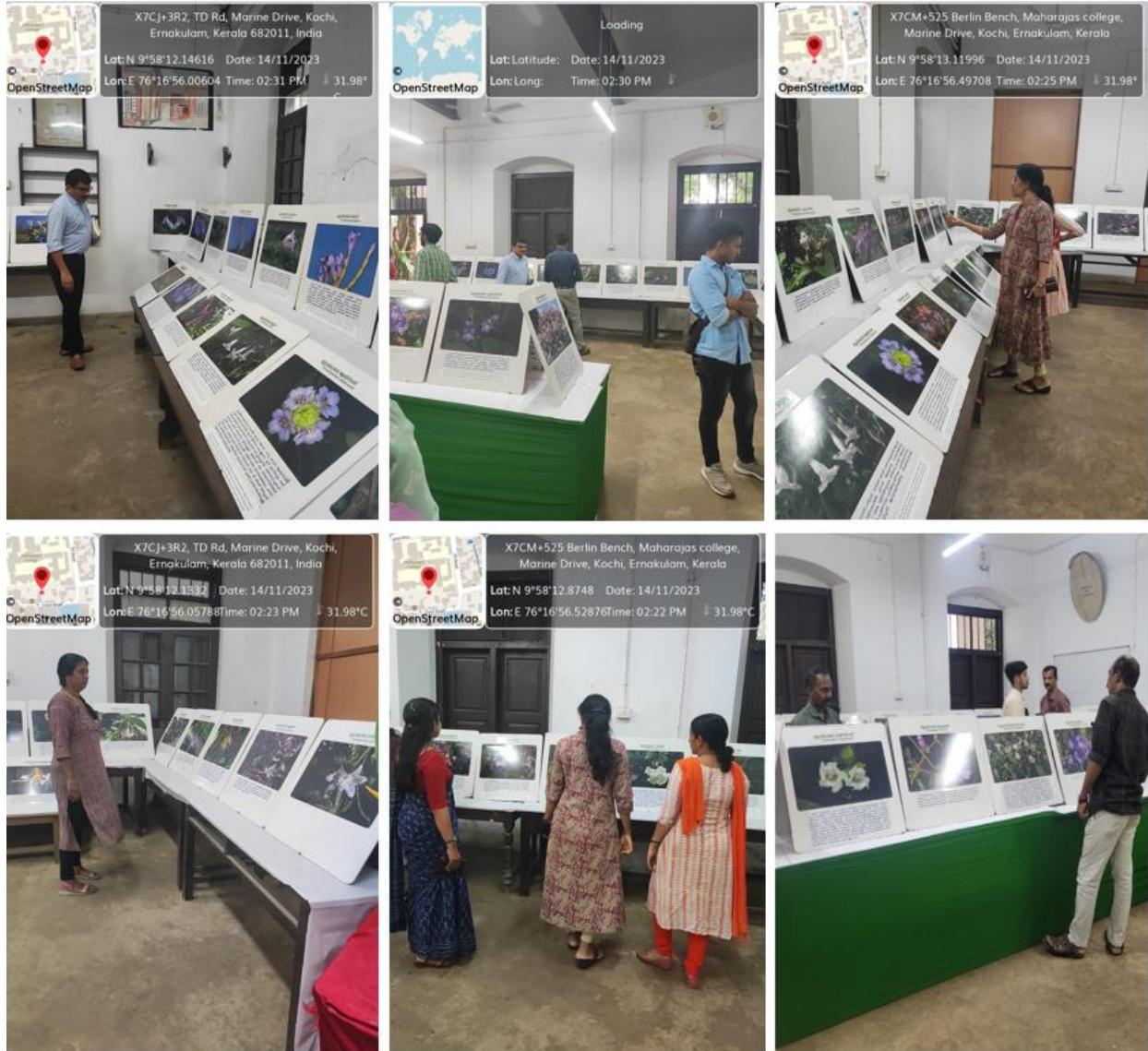
A photo exhibition of *Strobilanthes kunthiana* (Neelakurinji) was organized by Bhoomithra Sena in association with Department of Botany on 14th November 2023. The exhibition was inaugurated by Principal, Dr. Jayamol KV. Nearly 65 photographs of Neelakurinji by Dr. Jomy Augustine, former Head of the Department of Botany at St. Thomas College, Pala, were on display at the venue. An expert in Neelakurinji, he had traversed the full length of the Western Ghats in search of the magic weaved by the protected species. Dr. Augustine said that he had travelled to the hill ranges on several occasions to document the various species and that each variety had its own special features and helped in capturing the magic moments of the flower that blossoms only during certain years. It was his 35th exhibition of photographs on Neelakurinji at the Maharaja's College. Students from nearby Colleges visited the exhibition.



Venue of exhibition inauguration



Dr. Jomy Augustine interacting with our students



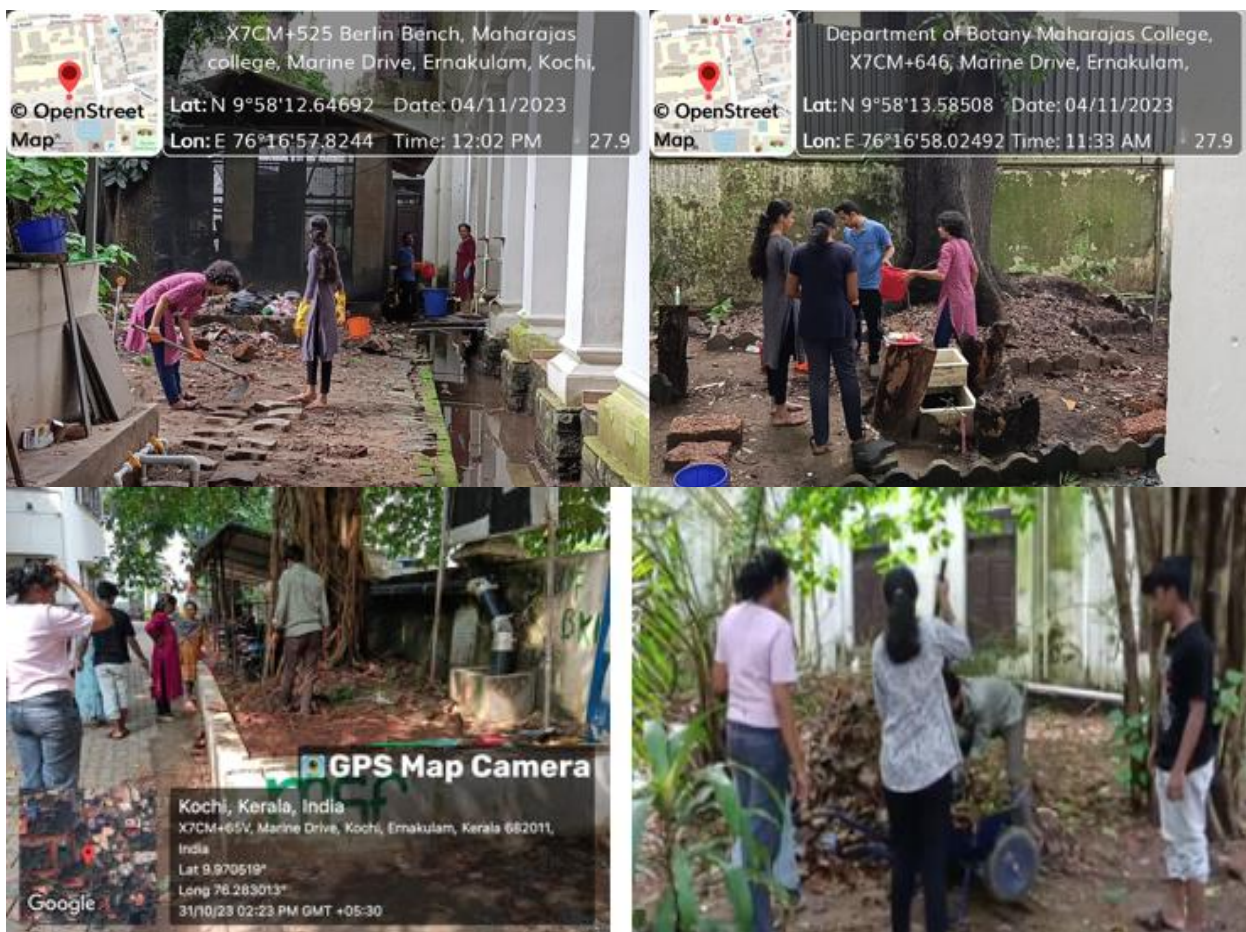
Spectators enjoying the Neelakurinji photo exhibits

Neelakurinji exhibition can be viewed at

<https://www.youtube.com/watch?v=NhMynFqVce4>

3.3.Cleaning activities

Cleaning activities were carried by the student members in different parts of campus in the last week of October and first week of November. Dry leaf litter was collected and used for mulching.



3.4. National Pollution prevention Day: Intercollegiate Poster Designing competition

An Intercollegiate Poster designing competition was organized in the first week of December 2023. Brochure for the competition was circulated among college student whatsapp groups at regional and national levels during first week of December 2023.

37 posters were received from various colleges all over India mostly from Kerala.

Posters were received from following students:

1. Sreevarsha C., B. Sc. Physics, Maharaja's College, Ernakulam
2. R.Sowmiya, MSc Botany, Thiagarajar College, Madurai
3. Snehambika C. V., B. A. Economics, St. Teresa's College, Ernakulam
4. Sneha M. S., B. A. English, Sree Narayana College, Punalur
5. Shalu Nifad T., M. Sc. Applied Geology, M. G. Uvty. Kottayam
6. Muhammed Shabil K. T., B. A. Malayalam, CHMKM Govt. Arts and Science College, Kozhikode

7. Salva K., B. Sc. Chemistry, Farook College, Kozhikode
8. Sadiya S., MSW DM, Loyola College of Social Sciences, Tvm.
9. Riya Jiji George, B. A. English, St. Teresa's College, Ernakulam
10. Rachel A. N., B.Sc. Computer Science, Christ College Irinjalakuda
11. Musafar Hyder Sharaf, B. Com., Christ College Irinjalakuda
12. Mumthas T. K. , M. Sc. Marine Microbiology, KUFOS
13. Mahesh Kumar V., M. B. A., M. G. Uvty. Kottayam
14. Liz Merin Renjith, BSc. Zoology, C. M. S. College, Kottayam
15. R. Kaviya, B. Sc. Botany, Thiagarajar College, Madurai
16. Jennette Tresa Jogi, B. Com., St. Teresa's College, Ernakulam
17. Jayasudiksha M., B. Voc. Software Development, St. Teresa's College, Ernakulam
18. Indhu G., MSc. Botany, Thiagarajar College, Madurai
19. Husna Raihana M. A., B. A. Hindi, Maharaja's College, Ernakulam
20. Athira Rajendran, M. Sc. Botany, St. Teresa's College, Ernakulam
21. Aswin K. Satheesh, M. B. A. , M. G. Uvty. Kottayam
22. Arya N. Padmanabhan, B. Sc. Chemistry, St. Paul's College, Kalamassery
23. Arjun V. Nair, B. Sc. Zoology, C. M. S. College, Kottayam
24. Antony P. D., B. A. English, Christ College Irinjalakuda
25. Ananya Arun, All Saints' College, Thiruvananthapuram
26. Amritha Suresh, B. Sc. Zoology, St. Teresa's College, Ernakulam
27. Amina N., B. A. English, Sree Narayana College, Punalur
28. Amal Narayanan P. S., M. A. Env. Studies, University of Delhi
29. Akhil V., MSc Botany, Central University of Kerala, Kasargod
30. Ajay A. S., M. Sc. Botany, University of Delhi
31. Afsal S., B. A. History, Govt. College, Nedumangad, Tvm.
32. Adhin Raj M., B.Sc. Botany, Govt. Arts and Science College Meenchanda, Kozhikode
33. Muhammed Yasir T., B. Tech Mech. Eng.,CUSAT

34. Vinaya R. Vijayan, All Saints' College, Thiruvananthapuram
35. Sriranjini S. Bhat, Maharaja's College, Ernakulam
36. Suryamol. S., M. Sc. Botany , Uvty. of Madras
37. Gaganasree V N, B.Sc. Botany, Sree Narayana College Nattika

Judges of the competition:

Dr. Neena George (Assistant Professor of Chemistry, Maharaja's College)
Dr. Jaseela F (Assistant Professor of Botany, Maharaja's College)
Dr. Satheesh Kumar Kandoth. (Assistant Professor of Sanskrit, Maharaja's College,)
Dr. Sreelakshmi K S (Assistant Profesor of Malayalam, Maharaja's College)
Deepa Mohan (Research Scholar, Department of Botany, Maharaja's College)

Prize Winners:

Cash prizes were given for the First (Rs. 1000/-), Second (Rs. 500/-) and Third prize (Rs. 300/-) winners. Consolation Prize (Rs. 100 x 2)

As per Judges opinion , prize amount was increased from the proposed amount considering a very good response received and also efforts and ideas put by the students

First Prize: Amal Narayanan P. S., M. A. Env. Studies, University of Delhi

Second Prize: Liz Merin Renjith, BSc. Zoology, C. M. S. College, Kottayam

Third Prize: Shalu Nifad T., M. Sc. Applied Geology, M. G. Uty. Kottayam

Consolation Prizes: Suryamol. S., M. Sc. Botany , Uvty. of Madras

Indhu G., MSc. Botany, Thiagarajar College, Madurai

E-Certificates were given to all the participants.

3.5. World Soil Day celebration

An exhibition in connection with World Soil Day was organized on 7th December 2023 in Maharaja's College. Dr. Joy VS, Principal, Maharaja's College inaugurated the event at 10.30 am. The detailed schedule of the programme conducted was as follows:

INAUGURAL SESSION: 10.30am -11.00 am

Welcome address : Dr. Sreelakshmi S. K.
(Assistant Professor of Malayalam)

Inauguration & Presidential address : Dr. V. S. Joy
(Principal, Maharaja's College)

Felicitation

: Dr. Pooja BalaSubramanian
(Vice Principal)

Dr. Julie Chandra

(Head, Dept. of Geology)

Vote of Thanks

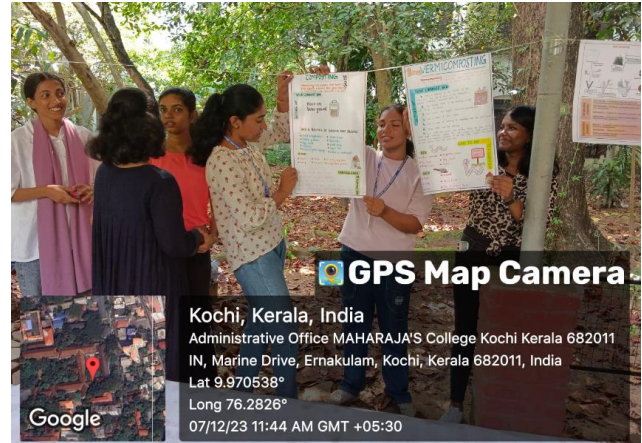
: Mr. Arjun Peethambaran

(Guest Faculty of Zoology)

Tea break

EXHIBITION OPENED FOR DISPLAY: 11.30 AM – 3 PM

The exhibition was kept open for display till 3pm. The event was organized by Bhomithrasena in association with the Dept. of Geology. The exhibits included different types of soils from different parts of Kerala (25 types). Bhoomithrasena members from the Dept. of Chemistry exhibited demonstration on soil tests while members from Dept. of Botany exhibited compost making and other natural methods to improve soil fertility.



World Soil Day exhibition can be viewed at

<https://www.youtube.com/watch?v=OO1gbwkRM-8>



3.6. World wetland land Day: Visit to Kadamakudy

As a part of World Wet land Day (February 2nd) celebrations, a visit to nearest wetland, Kadamakudy, was organized on 14th February 2024. Brochure was circulated among student groups to invite interested students to participate in the visit. Though 28 students gave their names, only 16 could attend due to ongoing internal examinations for third year B.Sc and M.Sc students.

ABOUT KADAMAKKUDY:

Kadamakkudy wetlands is part of Vembanad lake which is one among the Ramsar sites in Kerala. The place is situated around 13 km from Maharaja's College. The presence of wide variety of migratory birds, Mangroves, Watersheets, Pokalli and Prawn Farmlands are the unique features. Wetlands of Kadamakkudy is disappearing and losing its eco-sensitive character by urbanization and improper use of wetlands. Increasing urban developments and infrastucure is a major threat to the wetlands which disturbs the total ecology of the context. Hence awareness about conservation of this wetland is of utmost importance.

TOUR TEAM:

LIST OF STUDENTS

Sl. No.	Name of Student	Class
1	Rinshana V	4 th Sem. BA Politics
2	Ansil K A	2 nd Sem. B. Sc. Zoology
3	Reshmi Ramadas	2 nd Sem B. Sc Physics
4	Hishana P	2 nd Sem B. Sc Physics
5	Naivedya J.	2 nd Sem. B.Sc. Physics
6	Asmila	2 nd Sem. BA History
7	Swathi	2 nd Sem. B.Com
8	Hishma	2 nd Sem. BA English
9	Shahana Jasmin	2 nd Sem. BA History
10	Amrutha Vijayan	2 nd Sem. B.Sc. Botany
11	Varsha Rajesh	2 nd Sem. B.Sc. Botany
12	Devika M S	2 nd Sem. B.Sc. Botany
13	Surya	2 nd Sem B. Sc Physics
14	Sidharth	2 nd Sem B. Sc Physics
15	Athul Ramesh	2 nd Sem. B.Sc. Botany
16	Nourin Rehman L	2 nd Sem. BA Economics Model 1

Accompanying Staff: (Members of Bhoomithrasena, Maharaja's College)

Dr. Satheesh kumar Kandoth (Assistant Professor of Sanskrit)

Dr. Venugopal B (Assistant Professor of Chemistry)

Dr. Shanti Vasudevan C. N. (Assistant Professor of Botany)

Dr. Neena George (Assistant Professor of Chremistry)

TOUR GUIDE/RESOURCE PERSON:

Sri. Abin Joseliph, Research Scholar, Sacred Heart College, Thevara

INTRODUCTORY LECTURE: 8.30am- 9.30am

‘Importance of Wetland conservation’

Sri. Abin Joseliph, Research Scholar, Sacred Heart College, Thevara

Expertise: Biodiversity monitoring and assessment (Birds and Butterflies)



VISIT TO KADAMAKKUDY





More than 50 species of birds were identified in the wetland. Few of them were: White-breasted Waterhen, Pacific Golden-Plover, Lesser Sand-Plover, Red-wattled Lapwing, Black-tailed Godwit, Common Sandpiper, Spotted Redshank, Common Greenshank, Marsh Sandpiper, Wood Sandpiper, Common Redshank, Brown-headed Gull, Whiskered Tern, Asian Openbill, Oriental Darter, Little Cormorant, Indian Cormorant, Gray Heron, Great Egret, Intermediate Egret, Little Egret, Indian Pond-Heron, Glossy Ibis, Black-headed Ibis, Osprey, Common Kingfisher, Stork-billed Kingfisher, White-throated Kingfisher

Students enjoyed sightseeing and understood the importance of wetland. Common mangrove plants like *Sonneratia alba* was found abundantly on road sides. Students learnt the need to appreciate the beauty of wetland and also conserve them. Our visit may also be viewed at

https://youtu.be/41Ssp8_IRJM?feature=shared

3.7. Mushroom cultivation

Hands on training on *Pleurotus* mushroom cultivation by polybag method was organized by Bhoomithra Sena in association with the Department of Botany.

LECTURE SESSION: A class for the same was taken by the Resource Person, Dr. Stephen Sequeira (Assistant Professor of Botany, Maharaja's College, Ernakulam) on 13th February 2024, 3.00pm in the B.Sc. Botany Lab. 42 student members participated in the programme.

PRACTICAL SESSION: After the Lecture session, students actively got involved in the workshop session of spawning by filling the polybag with Mushroom spawn and making the bags ready for cultivation. Different substrates like paddy straw, dried banana leaves and coconut husk fibre were used. The bags were kept in wooden racks in dark room.

TRANSFER TO CROPPING ROOM: After 15 days when the bags were fully impregnated with white mycelium, they were transferred into cropping room and the polythene covers were cut opened. The opened bags were hanged in open room with gap. Humidity was maintained by spraying water twice a day on the walls and floor of the room.

HARVESTING: First harvest was done on 7th February 2024 by College Principal Dr. Suja TV in presence of all members and Sri Tomas Antony, Head, Dept. of Botany, and the harvest was gifted to Dr. Pooja Balasundaram (Vice Principal, Maharaja's College). Mushrooms were plucked before they were shed. Harvest was done twice for each substrate.

The cultivation of *Pleurotus* mushroom can be easily carried out using low cost agricultural waste and hence can be taken up on a large scale by individual entrepreneurs. The agro-climatic conditions as well as local availability of raw material makes mushroom cultivation an economically viable proposition. Our mushroom cultivation activity may be viewed at:

<https://youtu.be/sQwNKoIzRC4?feature=shared>





3.8. Feeding water to birds

All Bhoomithrasena members were requested to make arrangements for feeding water to the birds / animals during the month of March 2024. Members were asked to send photographs of the same to bhoomithrasena email id. bhoomithrasena@maharajas.ac.in. Brochure for the same was circulated among various student whatsapp groups. Active participants (Manu Prasad K P:3rd BA Economics Hons.; Devika M S: 1st year BSc. Botany; Jayasree S.: Research Scholar, Dept. of Botany; Dr. Pooja Balasundaram: Vice Principal, Maharaja's College) were gifted with cotton totte bags by College Vice Principal.





3.9. Curriculum assignment:

Name of student: Blessy Tereena D'Cruz (2nd year M.Sc. Botany)

Name of Guide: Dr. Shanti Vasudevan C.N. (Assistant Professor of Botany)

Title- Tree species in Maharaja's College Campus and its nearby avenues, Ernakulam, Kerala

Abstract-

Maharaja's College established in 1875, is one of the oldest colleges in India. The college located in the heart of Ernakulam city is spread over a 25-acre campus which is blanketed by many tall and shady trees. Trees have great potential to sequester carbon from the atmosphere and mitigate the impacts of climate change. Maharaja's College and its nearby avenues play a role in offsetting carbon emissions. The present study is a sustainability initiative to inventory the tree species in the campus and its nearby roads. A total of 451 trees belonging to 81 species and 349 trees belonging to 37 species were studied within the campus and from its nearby avenues respectively. The study revealed that *Swietenia macrophylla* King was the predominant species in the campus followed by *Caryota urens* L. in number. Among the avenues, *Peltophorum pterocarpum* (DC.) Backer ex K. Heyne was the abundant species. The present work will be helpful to evaluate the role of trees in reducing atmospheric carbon dioxide. The study recommends the necessity of green campuses with ideal tree species within the city to ameliorate the effect of climate change..

4. BROCHURES

നേച്ചർ ക്ലബ്ബ്, ഭൂമിത്രസേന
മഹാരാജാസ് കോളേജ്, എറണാകുളം

ഋണ 5-9
പരിസ്ഥിതി വാരാചരണം

**1000 ഫലവൃക്ഷത്തൈകൾ
വിതരണം**

സമയം : രാവിലെ 10 മണി
സ്ഥലം : പ്രൊഫ.എം.കെ പ്രസാദ് ഗ്രീൻ കൺസർവേറ്ററി

തൈകളുടെ വിതരണം

ശ്രീ ഡോ. വി.എസ് ജോയ് (പ്രിൻസിപ്പൽ മഹാരാജാസ് കോളേജ്)	ശ്രീമതി. രഞ്ജിനി .എസ് (ജില്ലാ കോർഡിനേറ്റർ കർമ്മ പദ്ധതി - 2)
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മഹനീയ സാന്നിധ്യം :

ശ്രീമതി. പദ്മജ ഭേരോൾ ഡിവിഷൻ കൗൺസിലർ
ഡോ. എം.എസ്. മുരളി പി.ടി.എ സെക്രട്ടറി
ശ്രീ. ഡോ. രാജൻ ഡയറക്ടർ സി.ഹെഡ്
ശ്രീ .അഡ്വ. എം.കെ ശശീന്ദ്രൻ കേരള കവി സമാജം

Activity 1: Tree plantation on World environment day celebrations

NEELAKURINJI PHOTO EXHIBITION

നീലക്കുറിഞ്ഞി ഫോട്ടോ പ്രദർശനം

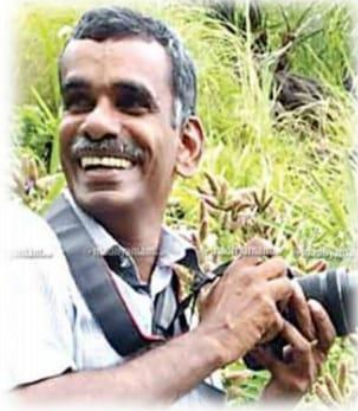


Organized by,

DEPARTMENT OF BOTANY
Maharaja's College, Ernakulam

In association with,

BHOOMITHRA SENA,
NATURE CLUB & IQAC
Maharaja's College



By,
Prof. Jomy Augustin
Rtd. HoD, Dept. of Botany,
St. Thomas College Pala
(Environmentalist & Neelakurinji Expert)

14th November 2023
11.30am – 2pm
Botany 2nd UG classroom





MAHARAJA'S COLLEGE
(A Government Autonomous College)
Ernakulam-682011



BHOOMITHRASENA



National Pollution Prevention Day

**INTERCOLLEGIATE ONLINE POSTER
DESIGNING COMPETITION**

Cash Prize will be awarded for The Best Poster

E-Certificates shall be given to all participants

THEME

Save Earth, Save Yourself

RULES AND REGULATIONS

- 1)Poster must be in A4 Size.
- 2)Weightage will be given to the original content and innovated ideas.
- 3)All UG and PG students can participate.
- 4)Posters should be sent to bhoomithrasena@maharajas.ac.in before **10/12/23**
- 5)Name, class, College & contact number must be included in the mail (Photo of College ID card to be attached).
- 6)Judge's decisions would be final.

FACULTY COORDINATORS

Dr. Venugopal B (Assistant Professor of Chemistry))
Dr. Neena George (Assistant Professor of Chemistry)
CONVENOR
Dr. Shanti Vasudevan C. N. (Assistant Professor of Botany)

Student Coordinators:

Ms. Surya K (I B.Sc. Physics) 9567913847
Ms.Naivedya J (I B.Sc. Physics) 8593811876
Mr. Ansil K A (I B.Sc. Zoology) 9539727931

Sponsored by,



DIRECTORATE OF ENVIRONMENT AND CLIMATE CHANGE
പരിസ്ഥിതി കാലാവസ്ഥ വ്യതിയാന ഡയറക്ടറേറ്റ്
GOVERNMENT OF KERALA



MAHARAJA'S COLLEGE
(A Government Autonomous College)
Ernakulam-682011



**BHOOMITHRASENA
& IQAC**

In association with,

DEPARTMENT OF GEOLOGY

Celebrates

World Soil Day

EXHIBITION

- TYPES OF SOILS IN KERALA
- SOIL TESTS
- NATURAL METHODS TO IMPROVE SOIL FERTILITY



7th December 2023

Thursday (12.00-1.30pm)

Venue: Department of Botany entrance

Faculty Coordinators:

Mr. Arjun Peethambaran (Guest Faculty of Geology)
Dr. Sreelekshmi S. K. (Assistant Professor of Malayalam)
Dr. Satheesh Kumar Kandoth (Assistant Professor of Sanskrit)

Student Coordinators:

Ms. Anishka Anishan (I M.Sc. Geology)
Ms. Surya K (I B.Sc. Physics)

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പരിസ്ഥിതി കാലാവസ്ഥ വ്യതിയാന ഡയറക്ടറേറ്റ്
GOVERNMENT OF KERALA



MAHARAJA'S COLLEGE
(A Government Autonomous College)
Ernakulam-682011



**BHOOMITHRASENA
& IQAC**



Visit to Kadamakudy Wetland

*As a part of
World Wetland day celebration*

VISIT HIGHLIGHTS

- Bird watching
- Enjoy backwaters, paddy fields

Interested students should please contact

14th February 2024
Wednesday (08.00 am-1.30pm)

Student Coordinators:

Ms. Rinshana V. (8593894757)
Ms. Naivedya J (I.B.Sc. Physics) 8593811876
Mr. Ansil K (I.B.Sc. Zoology) 9539727931

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കൂൺ കുഷി പരിശീലനം

OYSTER MUSHROOM CULTIVATION

13th February 2024

Venue: B. Sc. Botany Laboratory
2.00pm - 3.30pm



Resource Person:

Dr. Stephen Sequiera
Assistant Professor,
Dept. of Botany
Maharaja's College, Ernakulam



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BHOOMITHRASENA
MAHARAJA'S COLLEGE
Ernakulam-682011

In association with

Department of Botany



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വെള്ളം നൽകൂ, ജീവൻ നൽകൂ!



വേനൽക്കാലം
അതിരുകുഷമാകുന്നു
ദയവായി നിങ്ങളുടെ
ബാൽക്കണിയിലോ
ടെറസിലോ പക്ഷികൾക്ക്
വെള്ളം ക്രമീകരിക്കുക.
നമ്മുടെ ചെറിയ
പ്രയത്നത്താൽ
പക്ഷികൾക്ക്/ജീവജാലങ്ങ
ൾക്ക് ജീവൻ നൽകാൻ
കഴിയും.

നേടു സമ്മാനങ്ങൾ.....

(മഹാരാജാസ് കോളേജ് വിദ്യാർത്ഥികൾക്ക്)

- നിങ്ങൾ പക്ഷികൾക്ക്/ജീവജാലങ്ങൾക്ക് വെള്ളം നൽകുന്നതിനുള്ള ക്രമീകരണങ്ങൾ ചെയ്യുന്നതിന്റെ ഫോട്ടോകൾ മാർച്ച് 20 ന് മുൻപ് ഞങ്ങൾക്ക് അയച്ചു തരു bhoomithrasena@maharajas.ac.in
- ആദ്യത്തെ 10 എൻട്രികൾക്ക് കോട്ടൺ ടോട്ട് ബാഗ് സമ്മാനമായി ലഭിക്കും.

Student Coordinators:

Ms. Rinshana V (II BA Politics)8593894757
Mr. Ansil K A (I B.Sc. Zoology) 9539727931



BHOOMITHRASENA

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To view our activities please visit us @
<https://youtube.com/@bhoomithrasenamaharajacollege>



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