

BHOOMITHRA SENA

Annual Report
2022-23



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: Indian Golden Oriole (Oriolus kundoo) a migratory bird spotted from the campus on a Rain Tree on 3rd March 2023 by Abin Joseph (Research Scholar expertised in birds & Butterflies).

PREFACE

I am happy to present before you the Annual Report 2022-23 comprising of various activities taken up by the Bhoomithra Sena of Maharaja's College during the academic year 2022-23. Various activities and programmes taken up by the Club have been documented in this Annual Report. The formal inauguration of the programme was done by naturalist Sabu Abraham, HAS Physical Science, GVHSS Kothala, Kottayam on 1st Oct. 2022 through online mode. Major activities of the club include setting up of garden at department levels, documenting the birds species visiting the College campus, launching of Bhoomitrasena you tube channel, release of Bhoomitra Sena magazine – *Kshithi* 2022-23 and student academic dissertation works. I thank, The Chief Environmental Scientist, Central Laboratory, Kerala State Pollution Control Board, Gandhinagar, Kochi for permitting two of our students to carry out drinking water quality analysis in their lab. I extend my gratitude to Kochi Municipal Corporation for permitting our two students to document tree species in Subhash Chandra Bose Park, Koch. I would like to express my sincere gratitude to the support provided by Dr. Joy V.S., Principal-Maharaja's College, Dr. Bindu Sharmila TK, 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. Satheesh Kumar Kandoth (Assistant Professor of Sanskrit), Ms. Soumya V S (Assistant Professor of Economics), student coordinators - Jasna K. S. (3rd B.Sc. Mathematics), Ramis M. R. (2nd B.Sc. Physics), Sanjana Santhosh (3rd B.A. Philosophy), Aleena Nazeer (1st B.A. Sanskrit), Manuprasad (2nd B. A. Economics Honours) and Abhinav P (3rd B.Sc. Botany) 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





Contents

1. Introduction.....	1
2. Club Members.....	2
3. Major Achievements.....	5
4. Activities.....	6
5. Brochures.....	18
6. Article in Newspaper.....	24

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 5-1391 dated 07/07/2022 of Maharaja's College.

➤ Co ordinator

Dr. Shanti Vasudevan C. N.
Assistant Professor of Botany
shanti@maharajas.ac.in

➤ Members:

Dr. Sathish Kumar Kandoth
Assistant Professor of Sanskrit
satheeshkandoth79@gmail.com

Ms. Soumya V. S.
Assistant Professor of Economics
soumya@maharajas.ac.in

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 108 students from various departments like Hindi, Economics, Mathematics, Physics, Islamic History, B.Com., Philosophy, Botany and Zoology registered as club members. Following interested students were chosen as student coordinators.

Student Coordinators:

- i. Jasna K. S. (3rd B.Sc. Mathematics)
- ii. Ramis M. R. (2nd B.Sc. Physics)
- iii. Sanjana Santhosh (3rd B.A. Philosophy)
- iv. Aleena Nazeer (1st B.A. Sanskrit)
- v. Manuprasad (2nd B. A. Economics Honours)
- vi. Abhinav P (3rd B.Sc. Botany)

Registered Student Members:

Sl. No.	Name of student	Department	Class	Semester
1	Rithu Meher P	English	BA	V
2	Arathi TS	Philosophy	BA	III
3	Sreelakshmi Santhosh	English	BA	V
4	Abhinaya P	Economics	BA	III
5	Arathi Gopalakrishnan	Economics	BA	I
6	Abhila K	English	MA	III
7	Ramis M.R	Physics	BSc	III
8	Manuprasad K P	Honours Economics	Ba	III
9	Ashwin Denny	Ba Economics Model 1	BA	III
10	Maya B K	1st M A Economics	M A	I
11	Neehara Jayanth	Economics	BA	V
12	Shifna T C	Economics	MA	I

13	Darsana. K. P	Bsc Mathematics	BSc	I
14	Pavithra M	Economics	BA	I
15	Aiswarya Rajesh	Economics	BA	III
16	Muhsinnaheem	Philosophy	BA	III
17	Muhsina T I	Botany	MSc	I
18	Anjana J S	Zoology	MSc	III
19	Nived M Kurup	Economics Honours	BA	I
20	Akshay Sasi	Islamic History	BA	III
21	Keerthana Rajeev	Mathematics	BSc	I
22	Sarga Babu Tp	Sanskrit	MA	III
23	Reshma Shaji	Botany	M.Sc	III
24	Feba Regi	Economics	BA	III
25	Daisy Shaji	Economics	MA	II
26	Jasna K S	Mathematics	BSc	V
27	Tharapg	Economics Model 1	BA	III
28	Afitha Abbas V. P	B. A Economics	BA	III
29	Mufeeda	Mathematics	BSc	V
30	Sanjana Santhosh	Philosophy	BA	V
31	Blessy Tereena Dcruz	Botany	MSc	III
32	Gopika PP	Chemistry	BSc	III
33	Shahana Zakhir	Economics	BA	V
34	Varna Preman	Physics	BSc	V
35	Fidha Fathimath Kk	Economics Model One	BA	III
36	Bhavana Anilkumar	Philosophy	BA	I
37	Naveena	Philosophy	BA	I
38	Anagha Venugopalan V	Commerce	BCom	III
39	Midhun Govind Pg	Bsc. Physics	BSc	V
40	Aysha Ziya A K	Botany	Bsc	V
41	Aswathy Divakaran	Ba Economics	BA	I
42	Abhijith. M	Mathematics	BSc	III
43	Anjaly NR	Mathematics	BSc	I
44	Fahim Charmy Babu	Philosophy	BA	III
45	Aswathy V.A	Zoology	BSc	III
46	Tintu	Zoology	BSc	V
47	Subitha Krishnan	Zoology	BSc	V
48	Gayathri NG	English	BA	V
49	Fathima Rahim	Hindi	BA	III
50	M Gibin Babu	Ba Hindi	BA	I
51	Simi Treasa Kx	BA Hindi	BA	I
52	Farhana Ajeer	Hindi	BA	III
53	Mobin Monichan	Ba Hindi	BA	I
54	Bhavya Shenoil K B	Mathematics	BSc	I
55	Anagha Arun	BA Hindi	BA	I
56	Akshay Kumar L P	Hindi	BA	I
57	Nidha Farvin C. P	Bahindi	BA	III
58	Anagha Satheesan	Hindi	BA	III
59	Athulya Kumari K B	Hindi	BA	III
60	Sandra James	Hindi	BA	III
61	Shifana K A	Ba Hindi	BA	III

62	Sanjana Sanil	Hindi	BA	II
63	Ashna Vk	Ba Hindi	BA	III
64	Rizni Fathima	BA Hindi	BA	III
65	Nidha Farvin C. P	Hindi	BA	III
66	Saranya C	Hindi	BA	III
67	Amjada Nasrin K	Hindi	BA	I
68	Meenu T S	Hindi	BA	III
69	Sana S Prakash	Ba Hindi	BA	III
70	Parvathy K B	Hindi	BA	V
71	Anooja Baiju	Hindi	BA	V
72	Lakshmi .K Pai	Hindi	BA	V
73	Nazreena	Hindi	BA	V
74	Thameem Rahman	History	BA	III
75	Navya Krishna	History	BA	III
76	Sarang Vijay	History	BA	III
77	Aneena Elizabeth Roy	History	BA	III
78	Neenu T K	Ba Hindi	BA	III
79	Nanda Mithradas	Hindi	BA	III
80	Sneha Shaji	Ba Hindi	BA	III
81	Nivedithasr	Hindi	BA	III
82	Ruzvana VM	Hindi	BA	III
83	Almas Fadiya K	Hindi	BA	I
84	Avanthika Raj	Hindi	BA	II
85	Revathy A.R	Hindi	BA	III
86	Jenifar V J	Hindi	BA	V
87	Seethalakshmi C S	Hindi	BA	III
88	Ashna Vk	Ba Hindi	BA	III
89	Bhoomika S Nair	Economics	BA(Hons)	V
90	Anagha. M. S	Hindi	BA	III
91	Ambili C	Hindi	BA	III
92	Aqif Sadat Bin Abdul Latheef PM	Islamic History	BA	III
93	Nanditha S	Hindi	BA	I
94	Amal N Raj	History	BA	III
95	Jismy Thomas	History	BA	I
96	Ashmi Os	History	BA	I
97	Anagha Satheesh E. P	History	BA	I
98	Sneha Mol Sabu	History	BA	I
99	Arathi Manoharan	Hindi	BA	I
100	Nima Soman	BA Hindi	BA	I
101	Athullya Haridas	Hindi	BA	I
102	Anagha Arun	BA Hindi	BA	I
103	Abhinav P	Botany	BSc	V
104	Anjana Amar	Botany	BSc	III
1051	Aleena Nazeer	Sanskrit	BA	I
1061	Rehna	Hindi	BA	I
107	Hrithik Mohan L	Sanskrit	MA	III
108	Ajin Dev	Sanskrit	BA	I

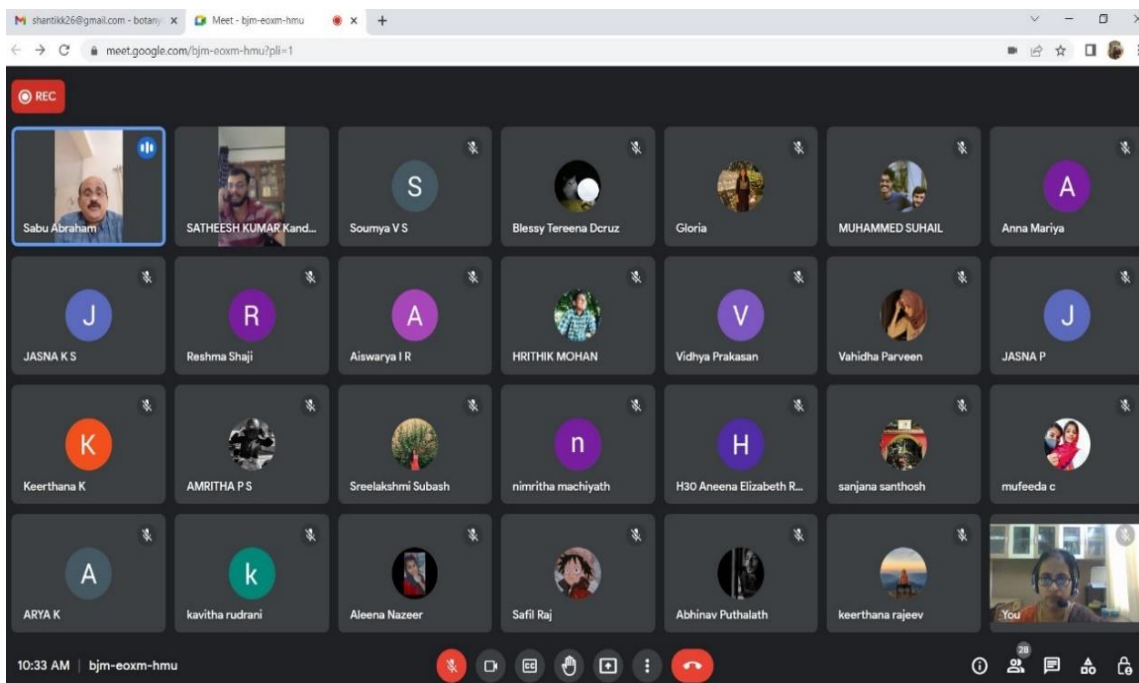
3. MAJOR ACHIEVEMENTS

- **Developed bird watching skill among interested students**
- **Documented 32 species of birds in Maharaja's College campus**
- **Encouraged students to design and create garden**
- **Gardens made by students of Islamic History, Philosophy and Hindi in College campus**
- **Our team won consolation Prize in videomaking competition organized by Kerala State Pollution Control Board District Office Kottayam on World Ozone Day**
- **Analysed drinking water quality of College campus**
- **Documented tree species in Subhash Chandra Bose Park, Ernakulam**
- **Studied problems and prospects of Harithakarma Sena of Kottuvally Gramapanchayath**

4. ACTIVITIES

4.1. Student Induction Programme

Student induction Programme for Bhoomitra Sena Club members was organized on 1st October 2022 at 10 am using online platform Google Meet (<https://meet.google.com/bjm-eoxm-hmu>). A total of 30 students participated in the event. Dr. Shanti Vasudevan C. N. (Coordinator of Bhoomitra Club & Assistant Professor of Botany) gave the introductory speech highlighting the aim, objectives of the club and the action plan for the academic year 2022-23. Dr. Sathish Kumar Kandoth (Assistant Professor of Sanskrit) welcomed the gathering and also introduced the Resource Person. Sri. Sabu Abraham, HSA Physical Science, GVHSS, Kothala, Kottayam gave the key note address. Sir highlighted the importance of Bhoomithra Sena in College. He mentioned the activities that can be planned and arranged. He also stressed the role of youngsters in conserving nature. The talk was very well appreciated by the students. Ms. Soumya V. S. (Assistant Professor of Economics) gave the vote of thanks. The programme ended by 11.45 am.



Screen shot of Online Student Induction programme held on 01/10/2022

4.2. Student participation in videomaking competition

Our student members participated in the videomaking competition organized by Kerala State Pollution Control Board District Office Kottayam on World Ozone Day. The video made was submitted on 6th October 2022. The same is uploaded in our You Tube channel also. Our students won consolation prize for the video. Jasna K S received the prize at Kerala Pollution Control Board Office, Kottayam on 4th March 2023. Team members: Jasna K S (3rd BSc Mathematics), Ramis M R (2nd BSc Physics), Abhinav VP (3rd BSc Botany), Sanjana Santhosh (3rd BA Philosophy), Manuprasad K P (2nd BA Eco.Hons).



Certificate of appreciation given by Kerala State Pollution control Board District Office, Kottayam to Maharaja's College



Jasna K S receiving prize at Kerala Pollution Control Board Office Kottayam on 4th March 2023.

4.3. Garden Making Competition

Interdepartmental garden making competition was organized for giving students an opportunity to bring out their hidden talents and creative ideas. The purpose of the same was to channelize the free time of students to get closer to nature. The flyer for the competition was circulated on 12th October 2022 via student & faculty WhatsApp groups. The Heads of all the departments were informed by giving hardcopy of invitation letters. The interested students were asked to register via google link:

<https://docs.google.com/forms/d/1WYdjU6uAFTwZQKVhVox1Rl2iEva8vJxnoJJbhWJLrPY/edit>

Students from 12 departments (2nd BA Hindi, Mathematics, Philosophy, Sanskrit, BA Malayalam, B.Com. Finance and Taxation, Islamic history, Economics, Botany. Zoology, English and Physics) had registered. Result was announced on 21st March

2023. First prize: Dept of Islamic History. Second prize: Dept. of Philosophy. Third prize: Dept. of Hindi. Prizes were distributed on the annual day function on 30th March 2023.



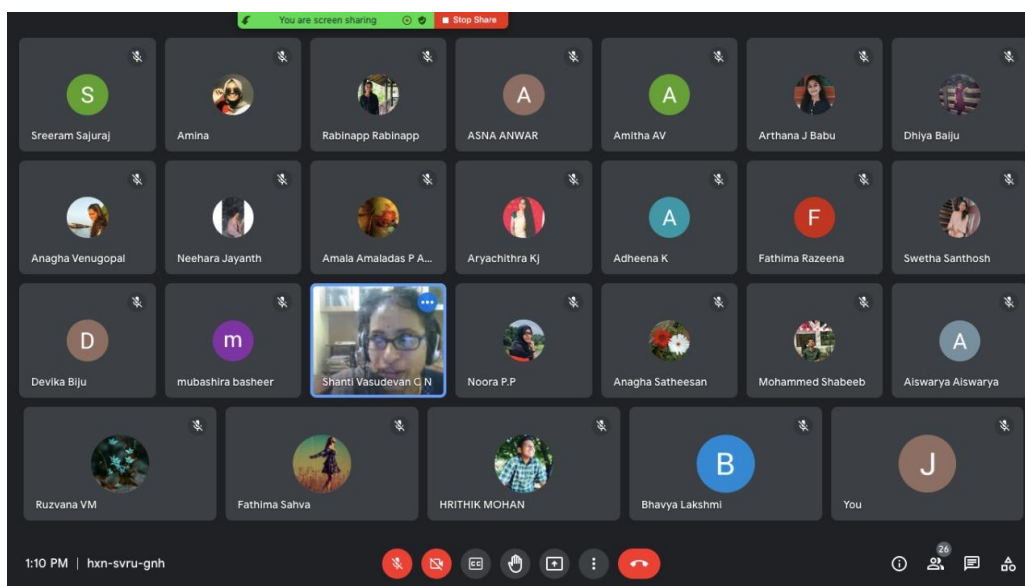
Garden of Dept. of Islamic History (First Prize winners) & Team receiving prize from College Principal



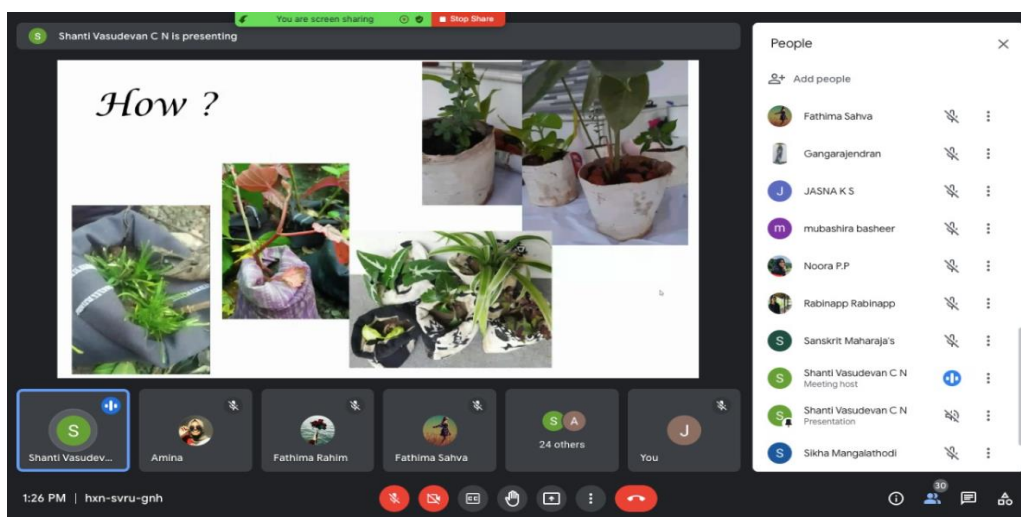
Dept. of Philosophy team (left) & Dept. of Hindi team receiving second and third prize respectively from College Principal

4.4. Class on Garden making

Bhoomithra Sena in association with Dept. of Botany organized an online training class on garden making on 5th November 2022 from 1-2.30pm using online platform Google Meet (<https://meet.google.com/hxn-svru-gnh>) (Brochure 4). The classes were taken by Dr. Shanti Vasudevan C. N. and Dr. Jaseela F (Assistant Professors of Botany, Maharaja's College). The class was attended by 34 students from various departments of the College.



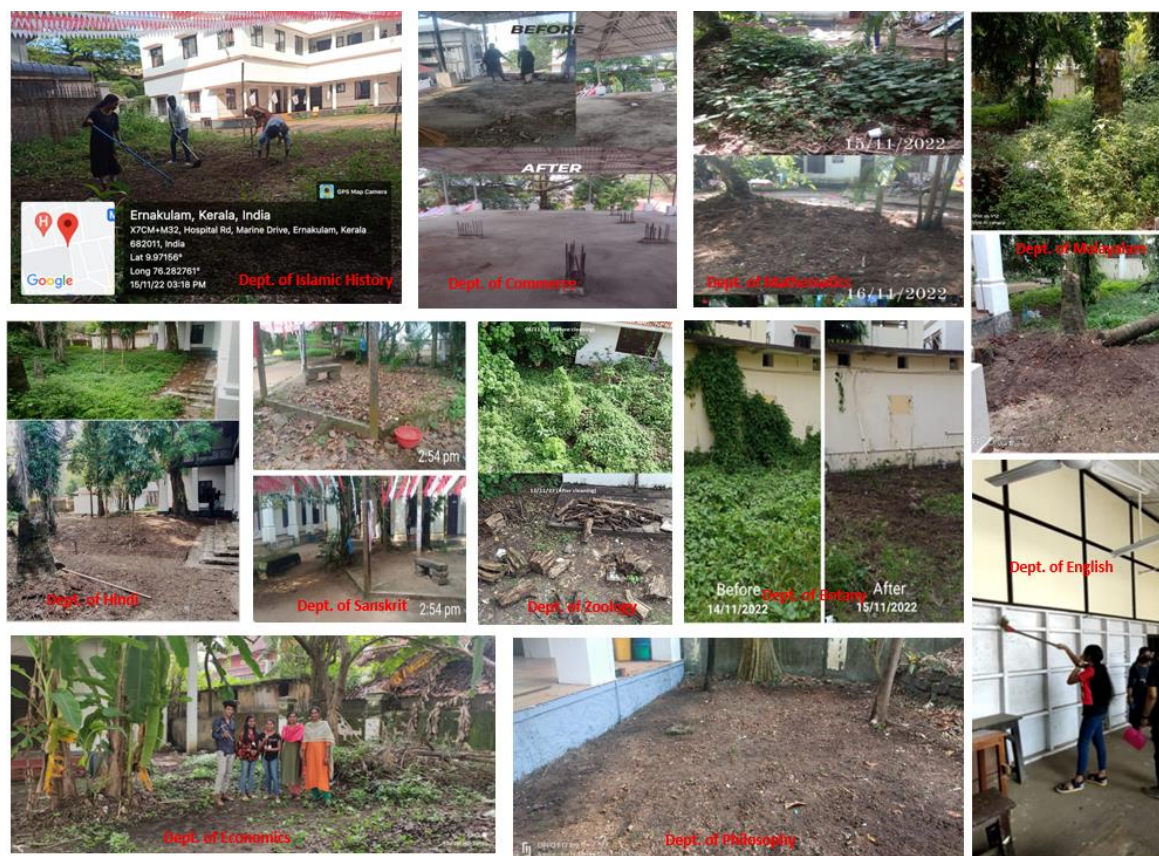
Screen shot of Online training class on garden making held on 05/11/2023



Screen shot of Online training class on garden making held on 05/11/2023

4.5. Cleaning Activities

Cleaning activities were carried out at department level as a part of Garden making competition during the month of November and December 2022. Periodic cleaning activities have been carried out by club members. Club financially supported a campus cleaning drive on 27th January along with NSS & PTA just prior to MG University Arts festival.



Initial cleaning done by various departments as a part of garden making competition

4.6. Associated with Corporation

Bhoomitra Sena members along with NSS & NCC cadets participated in 'Sarvashudhi'- a zero waste method, a waste management initiative of Ravipuram division (Cochin Corporation). Students who attended the initiative were:

- i. Blessy Terena Dcruz (2nd year M.Sc. Botany)
- ii. Swetha Menon (2nd year M.Sc. Botany)
- iii. Sruthi M (2nd year M.Sc. Botany)
- iv. Gloriamol Mathew (2nd year M.Sc. Botany)
- v. Jasna K S. (3rd year B.Sc. Mathematics)
- vi. Varna (3rd year B.Sc. Physics)



Students participating in rally of 'Sarvashudhi'

4.7. Bird Watching

4.7.1. North Kalamassery, HMT area

Bhoomithra Sena organized a Bird watching tour on 31st January 2023 for the club members in North Kalamassery, HMT area. The tour team was accompanied by Resource Person Sri. Abin Joseliph, Ph.D. Research Scholar, Post Graduate and Research Dept. of Zoology, Sacred Heart College, Thevara, Kochi-682013 [Research expertise: Urban Biodiversity monitoring and Assessment (Birds and Butterflies)] and Seven students had participated in the tour. The details of accompanied students are as follows:

- i. Jasna K S. (3rd year B.Sc. Mathematics)
- ii. Ramis M. R. (2nd year B.Sc. Physics)
- iii. Sneha Shaji (2nd year B.A. Hindi)
- iv. Anagha M. S. (2nd year B. A. Hindi)
- v. Ambili C. (2nd year B. A. Hindi)
- vi. Ruzvana V.M. (2nd year B. A. Hindi)
- vii. Neenu T.K. (2nd year B. A. Hindi)

50 species of birds were identified by sight and sound. Few birds couldn't be spotted but heard by their sound. Students had an informative and interesting time with young and energetic Research Scholar Mr. Abin and thus really enjoyed the tour.



Bird watching at HMT area, Kalamassery on 31st January 2023

4.7.2. Maharaja's College campus

Birds of our campus were observed on 3rd March 2023 under the guidance of Sri. Abin Joseliph, Ph.D. Research Scholar, Post Graduate and Research Dept. of Zoology, Sacred Heart College, Thevara, Kochi-682013 [Research expertise: Urban Biodiversity monitoring and Assessment (Birds and Butterflies)] and Dr. Sathish Kumar Kandoth (Assistant Professor of Sanskrit) 32 species of birds were identified from the campus and College ground.



മഹാരാജാസ് കോളജിൽ ജൂലിയൻസേനയുടെ നേതൃത്വത്തിൽ നടന്ന പക്ഷിനിരീക്ഷണം.

മഹാരാജാസിൽ 32 ഇനം പക്ഷികൾ

കൊച്ചി • വൃക്ഷങ്ങളുടെ എണ്ണം പിടിച്ച്, പക്ഷികളുടെ കണക്കെടുത്ത് മഹാരാജാസ് കോളജിലെ ജൂലിയൻ സേനയുടെ നേതൃത്വത്തിൽ കുട്ടികൾ പൂലർ കാലത്തേക്ക് ക്യാമ്പസിലിറങ്ങി. ചിലകൾ തോറും കുട്ടികൾ കിളികളെയെണ്ണി. രണ്ടു മണിക്കൂറോളം നീണ്ട യാത്രയിൽ മഹാരാജാസ് ക്യാമ്പസിൽ 32 ഇനം പക്ഷികളെയാണു സംഘം കണ്ടെത്തിയത്. ഇതിൽ 27 എണ്ണം ഇവിടെ സ്ഥിര താമസക്കാരാണ്. 5 എണ്ണം ശൈത്യകാല സന്ദർശകരും. മഞ്ഞക്കിളി, ഊറ്റുപൊളപ്പൻ, കൈതക്കണ്ണൻ, വലിയ വേലിത്തത്ത, വയൽക്കോതിക്കുതിക എന്നിങ്ങനെ അഞ്ചി

നം ദേശാടനക്കാർ. പ്രാപ്പിടിയനും ചെറുപ്പരുന്നും കൃഷ്ണപ്പരുന്നും കാടുകുഴക്കിയും കരിങ്കുയിലുമെല്ലാം അടങ്ങിയ തലയെടുപ്പുള്ളവരാണ് വിവിധതരം സ്ഥിരതാമസക്കാർ. മഹാരാജാസിലെ പ്രകൃതി സ്നേഹികളുടെ കൂട്ടായ്മയാണു ജൂലിയൻസേന. മഹാരാജാസിലെ അടയാളപ്പുക്കൾ തേടിയുള്ള യാത്രയിൽ അഭിനവ്, ഫാഹിസ്, റമിസും അന്നയും, റിഷയും സ്നേഹയും അഞ്ജനയും, ജെസ്നയും, ഡോ. ശാന്തി വാസുദേവനും, സൗമ്യയും, ഡോ.സതീഷ് കുമാർ കണ്ടോത്തും പക്ഷിശാത്രജ്ഞൻ എബിൻ ജോസഫിനും പങ്കെടുത്തു.

Malayala Manorama March 7, 2023



Bird watching at Maharaja's College campus on 3rd March 2023

4.8. World Wetland Day celebrations (Poster making competition)

As a part of World Wetland Day celebrations, an online poster making competition was conducted in the second week of February 2023. Posters were received till 10th Feb 2023. The prize winners were as follows:

First prize: Navya Krishna (II BA History)

Second prize: Sajini PF (III BA Economics Honors)

Third prize: Fathima Sahva (I BSc Zoology)

4.9. Digital Magazine

Decision for digital magazine making was taken in the meeting held on 13th January 2023. Ramis M. R. (2nd year B.Sc. Physics) was elected as the student magazine editor. Environment related articles were invited from the club members for the digital magazine from 16th January 2023 till 28th February.



Cover page of Bhoomithra Sena magazine 'Kshithi'

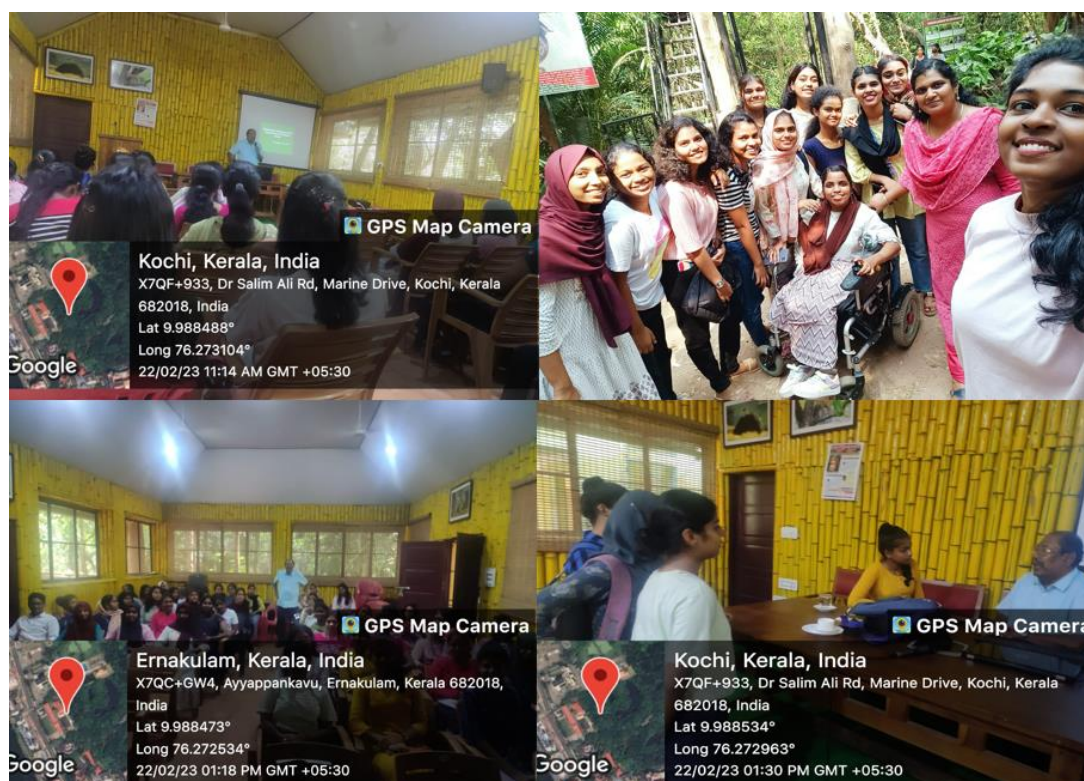
4.10. Launch of you tube channel

Decision for digital magazine making was taken in the meeting held on 13th January 2023. Ramis M. R. (2nd year B.Sc. Physics) was elected as the student magazine editor. Environment related articles were invited from the club members for the digital magazine from 16th January 2023 till 28th February.



4.11. Visit to Mangalavanam

A team of 32 students accompanied by Ms. Soumya V. S. (Assistant Professor of Economics) visited Mangalavanam Bird Sanctuary on 22nd February 2023. Students attended an informative talk by M.I. Varghese I.F.S. (Retd.) on the topic 'Biodiversity in Mangalavanam'. All enjoyed climbing the tree houses there. Students had a fun time walking through the mangrove forest and watching birds.



Students at Mangalavanam on 22nd February 2023



4.12. Curriculum Assignments:

Sl. No.	Name of students & Class	Title of dissertation	Abstract
1	Vahidha Parveen & Blessy Tereena D' Cruz (2 nd year M.Sc. Botany) under the guidance of Dr. Shanti Vasudevan C.N. (Assistant Professor of Botany)	Carbon sequestration potential of tree species in Subhash Chandra Bose Park	Carbon sequestration potential of cities can be affected due to sizeable reduction in tree cover by major infrastructure projects. Ernakulam (Kerala) city is not an exception since many trees were cut down in the last ten years for various major development projects - metro rail, road expansion and building construction. Urban green space, particularly trees have a greater potential to sequester carbon from the atmosphere and mitigate the impacts of climate change in cities. Subhash Chandra Bose Park located in the heart of Ernakulam city is one such green space that forms a major hangout for the city dwellers. The present study is a sustainability initiative to inventory the tree species in the park and assess their carbon sequestration potential. The total tree biomass, total stored carbon, and CO ₂ removed by the trees were determined using allometric model/volume equations and compared. A total of 90 tree species belonging to 12 plant families were studied within the park covering 11.5 acres. The study revealed that <i>Cyrtostachys renda</i> was the predominant species in the park followed by <i>Roystonea regia</i> in number. Carbon sequestration potential was highest in <i>Peltophorum pterocarpum</i> followed by <i>Roystonea regia</i> . The present work will be helpful to evaluate the role of trees in reducing atmospheric carbon dioxide. The study recommends the necessity of green spaces with ideal tree species within the city to ameliorate the effect of climate change.
2	Abhinav V.P. & Muhammed Fahiz A.T. (3 rd year B.Sc. Botany) under the guidance of Dr. Shanti Vasudevan C.N. (Assistant Professor of Botany)	Assessment of drinking water quality of Maharaja's College campus	Drinking water quality affects directly human health. According to the WHO, tangible benefits to health can be obtained from access to safe drinking water. The study was carried out with an aim to investigate the quality of drinking water in Maharaja's College campus. The physicochemical parameters (colour, pH, conductivity, ammoniacal nitrogen, chloride, fluoride, sulphate, nitrate, hardness, BOD, COD, calcium and magnesium) and microbiological quality (total coliform and fecal coliform) of water samples were analyzed. Among five of the samples studied four of them met the recommended acceptable range by WHO except one that showed total coliform higher than the recommended level. Thus drinking water from four of the sources are good for drinking while the fifth source needs further purification treatment.
3	Vishnu Soman, Arunima Arun Raj, Sukanya G, Fiya Mary Brilly, & Arya M B (3 rd BA Economics Model 1) under the guidance of Ms. Soumya V. S. (Assistant Professor of Economics)	A Study On Problems And Prospects of Harithakarma Sena of Kottuvally Gramapanchayath	Solid waste management is a serious problem in Kerala. Harithakarma Sena is a volunteer organization formed in 2017 in collaboration with Haritha Kerala Mission, Suchitwa mission and Clean Kerala Company which aims to promote environmental conservation and sustainable development in Kerala. The study was carried out to examine the socio economic background of haritha karma sena members, to analyze the various challenges faced by the harithakarma sena members and to analyze its importance. The study identified the lack of storage facilities for the waste collected from households as a significant problem. Some households showed reluctant attitude towards harithakarma sena. The study recommends the provision of storage facilities in all wards and better awareness and education for households on proper waste management. Overall, the study highlighted the need for effective solutions to overcome the challenges in solid waste management and the importance of supporting organizations like Harithakarma Sena to promote sustainable development and environmental conservation.

4.13. Annual Day Function

Annual day function was organized on 30th March 2023 at 10am at KN Raj Hall, Economics Honours building. Function was presided over by the Principal, Dr. V. S. Joy. Dr. Satheesh Kumar Kandoth (Assistant Professor of Sanskrit) welcomed the gathering. Dr. Shanti Vasudevan (Assistant Professor of Botany) presented the annual report. Club e-magazine KSHITHI 2022-23 was released by the Principal, Dr. V. S. Joy. Club You Tube channel was launched by Vice Principal, Dr. Bindu Sharmila. Dr. M.S. Murali (PTA Secretary & Assoc. Professor of Malayalam), Sri. Thomas Antony (Head, Dept. of Botany) gave felicitations. Prizes were distributed to all winners of various competitions held. Student members were given certificates. Best student member was awarded to Jasna K. S. of 3rd B.Sc. Mathematics.



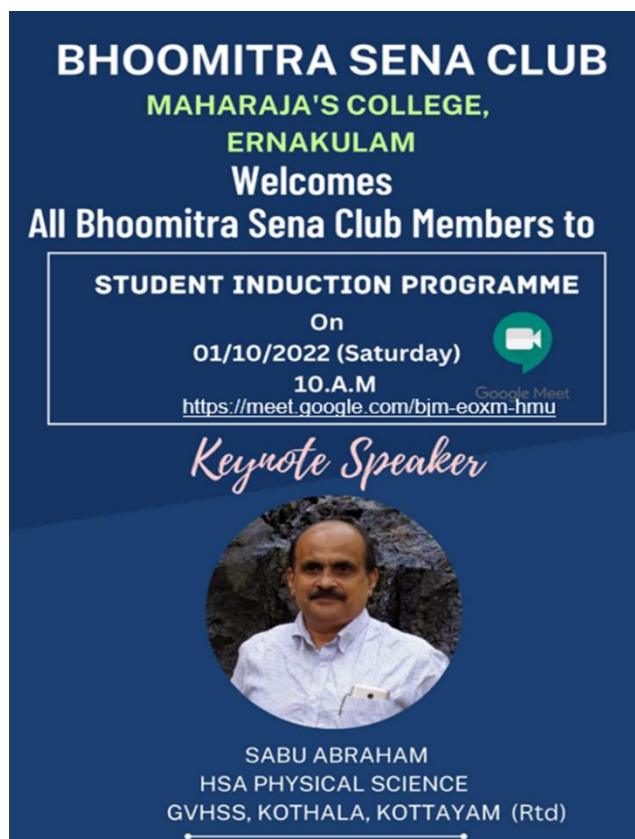
Annual Day Function: Magazine release, prize distribution

5. BROCHURES



<https://docs.google.com/forms/d/1tUXcuk79TC6B5-iBeeUOABA89AeWZc5GaIA84DisIYA/edit>

Flyer & Registration via google form link



Student Induction Programme

BHOOMITRA SENA CLUB

Maharaja's College, Ernakulam

Garden making competition

Cash Prize:
First prize: ₹3000
Consolation Prize: 2x ₹1000

Register before 30th October:
<https://docs.google.com/forms/d/1WYdjU6uAFTwZQKVhVox1RI2iEva8vJxnoJBhWJLRPY/edit>

Instructions:-

1. Should be completed within 90 days time.
2. A group consisting of minimum 5 students can participate.
3. Best department would be given a cash prize of Rs. 3000/-.
4. Only sustainable gardening practices should be followed.

For further enquiry, please contact student coordinators:

- i. Sanjana Santhosh (3rd B.A. Philosophy): 9188444998
- ii. Jasna K S (3rd B.Sc. Mathematics): 6282465703
- iii. Thameem Rahman (2nd B.A. History): 7907216689
- iv. Abhinav P (3rd B. Sc. Botany): 9074951601
- v. Manuprasad K. P. (2nd B. A. Economics Honours): 9947493816

Faculty Coordinators:
 Dr. Shanti Vasudevan C. N. (Assistant Professor of Botany)
 Dr. Sathish Kumar Kandoth (Assistant Professor of Sanskrit)
 Ms. Soumya V. S. (Assistant Professor of Economics)

ഭൂമിത്ര സേന ക്ലബ്

മഹാരാജാസ് കോളേജ്, എറണാകുളം

പുത്തോട്ട നിർമ്മാണ മത്സരം

ക്യാഷ് പ്രൈസ്:
ഒന്നാം സമ്മാനം: ₹3000
പ്രോത്സാഹന സമ്മാനം: 2x ₹1000

ഒക്ടോബർ 30-ന് മുമ്പ് രജിസ്റ്റർ ചെയ്യുക:
<https://docs.google.com/forms/d/1WYdjU6uAFTwZQKVhVox1RI2iEva8vJxnoJBhWJLRPY/edit>

പുത്തോട്ട നിർമ്മാണ മത്സരം. നിബന്ധനകൾ :-

1. പുത്തോട്ട നിർമ്മാണം 90 ദിവസത്തിനുള്ളിൽ പൂർത്തിയാക്കേണ്ടതാണ്.
2. മത്സരത്തിൽ പങ്കെടുക്കേണ്ട ഗ്രൂപ്പുകളിൽ ഏറ്റവും കുറഞ്ഞത് 5 അംഗങ്ങൾ എങ്കിലും ഉണ്ടായിരിക്കേണ്ടതാണ്.
3. ഏറ്റവും മികച്ച പുത്തോട്ടത്തിന് 3000 രൂപ ഒന്നാം സ്ഥാനം ഉണ്ടായിരിക്കുന്നതാണ്.
4. മത്സരത്തിൽ പ്രകൃതി സൗഹൃദപരമായ കൃഷിരീതിയാണ് അനുവർത്തിക്കേണ്ടത്.

കൂടുതൽ വിവരങ്ങൾക്ക് വിദ്യാർത്ഥി കോർഡിനേറ്റർമാരുമായി ബന്ധപ്പെടുക:

- i. സഞ്ജന സന്തോഷ് (iii ബി.എ. ഫിലോസഫി): 9188444998
- ii. ജസന കെ.എസ്. (iii ബി. എസ്. സി. മാത്തമാറ്റിക്സ്): 6282465703
- iii. തമീം റഹ്മാൻ (ii ബി. എ. ചരിത്രം): 7907216689
- iv. അഭിനവ് പി (iii ബി. സി. ബോട്ടനി): 9074951601
- v. മനുപ്രസാദ് കെ.പി. (ii ബി. എ. ഇക്കോണമിക്സ് ഓറേഴ്സ്): 9947493816

ഫാക്കൽറ്റി കോർഡിനേറ്റർമാർ:
 > ഡോ. ശാന്തി വാസുദേവൻ സി.എൻ. (ബോട്ടനി അസിസ്റ്റന്റ് പ്രൊഫസർ)
 > ഡോ. സതീഷ് കുമാർ കണ്ടോത്ത് (സംസ്കൃതം അസിസ്റ്റന്റ് പ്രൊഫസർ)
 > ശ്രീമതി സൗമ്യ V. S. (ഇക്കോണമിക്സ് അസിസ്റ്റന്റ് പ്രൊഫസർ)

Garden making competition (interdepartmental)

Dear Madam/Sir,

Greetings from Bhoomitra Sena members!

With pleasure we invite your department to participate in the Garden making Competition organized by Bhoomitra Sena Club of Maharaja's College. This is an excellent opportunity for our students to get closer to nature and bring out their hidden talents and creative ideas. We look forward to have at least one group from each department. Interested students must register in the Google form link provided in the Flyer. We are attaching the Flyer along with this letter that can be put up in the Department notice board.

Kindly do the needful.

Warm regards....

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

Ms. Soumya V. S. (Assistant Professor of Economics)

Dr. Sathish Kumar Kandoth (Assistant Professor of Sanskrit)

Invitation Letter to HoD's



Training Class on Garden Making

Organized by,
BHOOMITRA SENA CLUB
 MAHARAJA'S COLLEGE (Government Autonomous), Ernakulam

In association with,
Department of Botany

5th November 2022
 Time : 1pm – 2.30pm

 <https://meet.google.com/hxn-svru-gnh>

Steps of Garden making (1-1.45pm)
 Dr. Shanti Vasudevan C. N.
 Assistant Professor
 Dept. of Botany
 Maharaja's College

Garden designing (1.45-2.30pm)
 Dr. Jasula F.
 Assistant Professor
 Dept. of Botany
 Maharaja's College

Training class on Garden making (interdepartmental)



ORIENTATION AND TRAINING PROGRAMME
 on
Ravipuram Sarvashudhi – a waste management initiative of Cochin Corporation

for
NCC, NSS, BHOOMITRA SENA, AND NATURE CLUB Volunteers

Venue: GNR Hall
 DATE: 19-1-2023
 Time: 11am-1pm

MAHARAJA'S COLLEGE (GOVT. AUTONOMOUS) ERNAKULAM

MANAGE YOUR WASTE
 Lets make it as a Habit...!!




Training Programme on waste management initiative by Cochin Corporation

BHOOMITRA SENA
Maharaja's College

Bird watching tour

Exploring...
North Kalamassery
Ernakulam
31st January 2023
Saturday

Accompanied by



ABIN JOSEELIPH
Ph.D. Research Scholar
Post Graduate and Research Dept. of Zoology
Sacred Heart College,
Thevara, Kochi-682013
Research expertise: Urban Biodiversity monitoring and Assessment (Birds and Butterflies)



Interested student members please contact:
i. Jasna K S (3rd B.Sc. Mathematics) 6282465703
ii. Ramis M. R. (2nd B.Sc. Physics) 8590952502



Bird watching tour

BHOOMITRA SENA
Maharaja's College, Ernakulam

Birds of our campus

Exploring...
Maharaja's College
3rd March 2023 (6.30am-9.00am)
Friday

Accompanied by

Mr. ABIN JOSEELIPH
Ph.D. Research Scholar
Post Graduate and Research Dept. of Zoology
Sacred Heart College,
Thevara, Kochi-682013
Research expertise: Urban Biodiversity monitoring and Assessment (Birds and Butterflies)

Interested students please contact:
Jasna K S (3rd B.Sc. Mathematics) 6282465703
Ramis M. R. (2nd B.Sc. Physics) 8590952502

Birds of our campus

BHOOMITHRA SENA
Maharaja's College Ernakulam

ONLINE POSTER MAKING COMPETITION

In connection with
World Wetland Day Celebrations, 2023
Theme: ECOSYSTEM RESTORATION

Cash Prize will be awarded for The Best Poster
E-Certificates shall be given to all participants



RULES AND REGULATIONS

- 1) Poster must be in A4 Size.
- 2) Weightage will be given to original content and innovated ideas.
- 3) All UG and PG students can participate.
- 4) Posters should be sent to brmcmarajas22@gmail.com before 10/02/23
- 5) Name, class & contact number must be included in the mail.
- 6) Judge's decisions would be final.


For enquiries:
Student coordinators:
i. Jasna K S (3rd B.Sc. Mathematics): 6282465703
ii. Sanjana Santhosh (3rd B.A. Philosophy): 9188444998
iii. Ramis M. R. (2nd B.Sc. Physics) : 8590952502

Wetland day celebration

BHOOMITHRA SENA
Maharaja's College Ernakulam

RESULT OF
ONLINE POSTER MAKING COMPETITION

In connection with
World Wetland Day Celebrations, 2023
Theme: ECOSYSTEM RESTORATION



First Prize
Navya Krishna
II B.A. History

Second Prize
Sajini P. F.
III B.A. Eco. Hons.

Third Prize
Fathima Sahva
I B.Sc. Zoology.

CONGRATULATIONS!

Result of poster competition




മഹാരാജാസ് കോളേജ് ഭൂമിത്ര സേന ക്ലബ്ബിന്റെ ആഭിമുഖ്യത്തിൽ, ക്ലബ്ബ് അംഗങ്ങളിൽ നിന്നും പരിസ്ഥിതി സംബന്ധമായ ലേഖനങ്ങൾ / കവിതകൾ / ചെറുകഥകൾ (ഇംഗ്ലീഷ് / ഹിന്ദി / മലയാളം / അറബിക് / സംസ്കൃതം) ചിത്രങ്ങൾ, പെയിന്റിംഗുകൾ എന്നിവ ക്ഷണിക്കുന്നു.

രചനകൾ 2023 ഫെബ്രുവരി 28 ന് മുൻപായി താഴെ കാണുന്ന അഡ്രസിൽ അയച്ചുതരേണ്ടതാണ്.

bmc Maharajas22@gmail.com


വിദ്യാർത്ഥികളുടെ രചനകൾ ഉൾക്കൊള്ളുന്ന മാഗസിൻ കോളേജ് വെബ്സൈറ്റിൽ പ്രസിദ്ധീകരിക്കുന്നതാണ്.

-Cordinator-



BHOOMITHRA SENA CLUB MAHARAJA'S COLLEGE ERNAKULAM


Digital Magazine



BHOOMITHRA SENA
Maharaja's College

Visit to Mangalavanam Bird Sanctuary

22nd February 2023
Wednesday




Interested student members please contact:
Jasna K S (3rd B.Sc. Mathematics) 6282465703

Accompanied by
Ms. Soumya V. S. (Assistant Professor of Economics)

Visit to Mangalavanam

BHOOMITHRA SENA
MAHARAJA'S COLLEGE
Ernakulam
Annual Day Function
30th March 2023, 10am
at KN Raj Hall Economics Honors Building



- ❖ *Release of Digital Magazine*
- ❖ *Launch of Bhoomithra Sena YouTube channel*
- ❖ *Certificate/Prize distribution*
- ❖ *Annual Report presentation*

All are welcome!!!

Annual Day Flyer

BHOOMITHRA SENA

MAHARAJA'S COLLEGE
Ernakulam

Annual Day Function

30th March 2023, 10am
K N Raj Hall Economics Honors Building



Dear Madam/Sir,

We cordially invite you to attend the annual day meet of Bhoomithrasena Club of Maharaja's College on 30th March 2023, 10am at K N Raj Hall.

Warm regards....

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

Dr. Sathish Kumar Kandoth (Assistant Professor of Sanskrit)

Ms. Soumya V. S. (Assistant Professor of Economics)

HIGHLIGHTS

- ❖ Release of Digital Magazine
- ❖ Launch of Bhoomithra Sena YouTube channel
- ❖ Certificate/Prize distribution
- ❖ Annual Report presentation

PROGRAMME SCHEDULE:

Invocation	
Welcome Address	: Dr. Satheesh Kumar Kandoth (Assistant Professor of Sanskrit)
Annual Report	: Dr. Shanti Vasudevan (Assistant Professor of Botany)
Presidential address & Release of Magazine	: Dr. Joy V. S. (Principal, Maharaja's College)
YouTube channel launch	: Dr. Bindu Sharmila T. K. (Vice principal, Maharaja's College)
Felicitations	: Dr. Murali M.S. (PTA Secretary) Sri. Thomas Antony (Head, Dept. of Botany) Mr. Sreekanth T. S. (Maharaja's College, Union Chairman)
Vote of Thanks	: Smt. Soumya V. S. (Assistant Professor of Economics)

Annual Day Invitation

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

A large, white, two-story building with a red-tiled roof and a prominent tree in the foreground. The building has a classical architectural style with columns and arches. The tree is tall and has a thick trunk with a large, spreading canopy of green leaves. The sky is overcast and grey.

BHOOMITHRA SENA

MAHARAJA'S COLLEGE

Ernakulam

(A Government Autonomous College)

Kochi-682011, Kerala