

GREEN NEWS

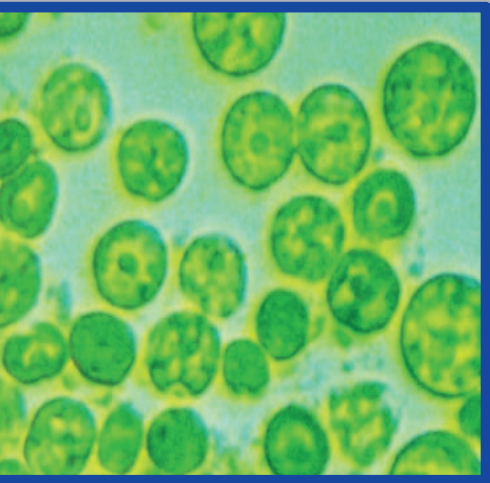
MARCH
2017

*I pull a flower from the woods,
A monster with a glass
Computes the stamens in a breath,
And has her in a class.*

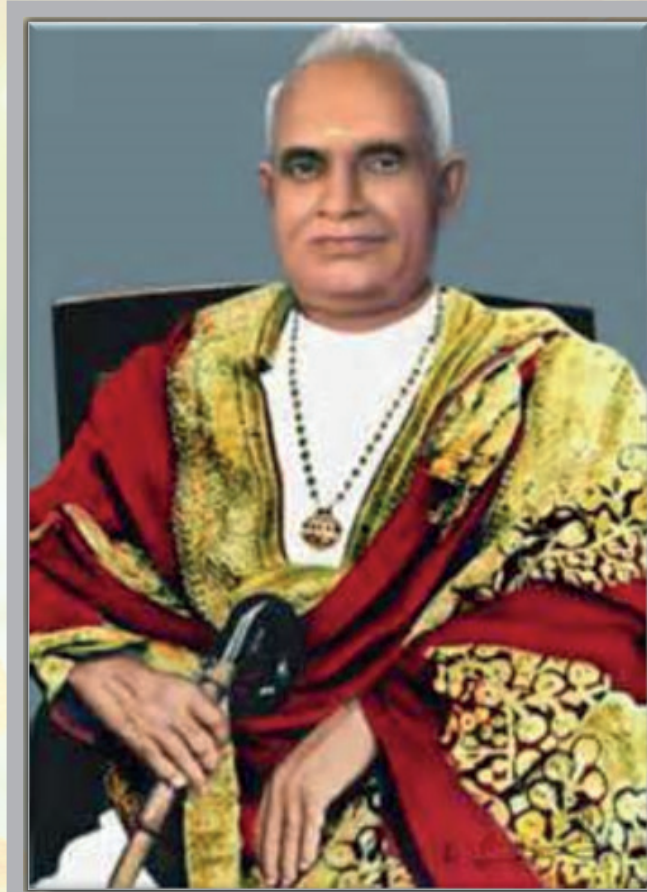
POST GRADUATE DEPARTMENT OF BOTANY AND RESEARCH CENTRE



MAHATMA GANDHI COLLEGE
KESAVADASAPURAM
THIRUVANANTHAPURAM, KERALA
INDIA - 04



NSS



**PADMABHUSHAN BHARATHA KESARI
SRI. MANNATHU PADMANABHAN
FOUNDER
NAIR SERVICE SOCIETY**

NSS



SRI. G. SUKUMARAN NAIR
HON. GENERAL SECRETARY
NAIR SERVICE SOCIETY

MGC



DR. M. R. SUDARSANAKUMAR
PRINCIPAL
MAHATMA GANDHI COLLEGE
THIRUVANANTHAPURAM

POST GRADUATE DEPARTMENT OF BOTANY AND RESEARCH CENTRE

Degree course was started in the Department of Botany in 1957 and the post graduate course in 1982. The department became a recognized research centre in 1988. The Botany Department has a well equipped laboratory, where research activities under Tissue Culture, Mutation Breeding, Environmental Science, Reproductive Biology are being carried out. The full-fledged tissue culture lab is equipped for offering Biotechnology as elective paper for PG course. The Dept. has projects funded by UGC and KSCSTE Recently the research lab has acquired a PCR.

As part of the quality improvement programme, the department staff ensures that the students under their care, receive the best support and guidance throughout their studies. Test papers and tutorial sessions are held regularly to evaluate and to enhance the overall development of the students. Group tutors monitor the academic performance of the students and special attention is given to the weaker students. Brighter students are encouraged to perform to their best. Students are also given opportunity to present papers, attend seminars and workshops. Visit to research institutions, Botanic gardens, Sanctuaries and National Parks provide an exposure to students besides their theory and practical classes. Teachers and students participate in extension activities of government and non-government organizations.

FACULTY MEMBERS



DR. SANTHOSHKUMAR R.
ASST. PROF. & HOD



DR. PRAVEEN KUMAR B. R.
ASST. PROF.



DR. SUMITHA V. R.
ASST. PROF.



DR. NEETHU S. KUMAR
ASST. PROF.



DR. RAJESH KUMAR T.
ASST. PROF.



DR. SREEJA THANKAPPAN
ASST. PROF.

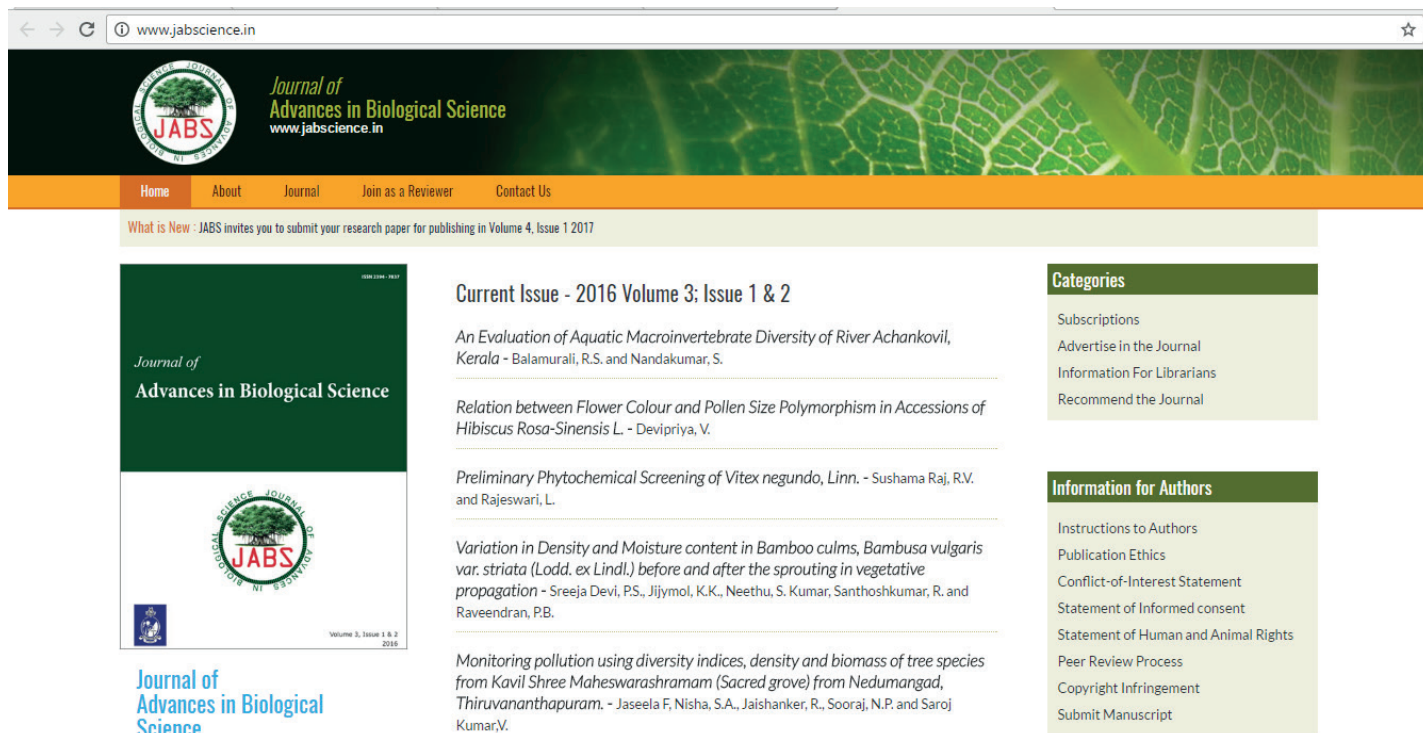


DR. DIVYA K. R.
ASST. PROF.



DR. AKHILA H.
ASST. PROF.

www. jabscience.in



The screenshot shows the homepage of the Journal of Advances in Biological Science (JABS). The browser address bar displays 'www.jabscience.in'. The header features the JABS logo and the journal title. A navigation menu includes 'Home', 'About', 'Journal', 'Join as a Reviewer', and 'Contact Us'. A 'What is New' banner invites submissions for Volume 4, Issue 1 (2017). The main content area is divided into three columns: a featured journal cover, a list of current issues, and a sidebar with 'Categories' and 'Information for Authors'.

Journal of Advances in Biological Science

Volume 3, Issue 1 & 2
2016

Journal of Advances in Biological Science

Current Issue - 2016 Volume 3; Issue 1 & 2

An Evaluation of Aquatic Macroinvertebrate Diversity of River Achankovil, Kerala - Balamurali, R.S. and Nandakumar, S.

Relation between Flower Colour and Pollen Size Polymorphism in Accessions of Hibiscus Rosa-Sinensis L. - Devipriya, V.

Preliminary Phytochemical Screening of Vitex negundo, Linn. - Sushama Raj, R.V. and Rajeswari, L.

Variation in Density and Moisture content in Bamboo culms, Bambusa vulgaris var. striata (Lodd. ex Lindl.) before and after the sprouting in vegetative propagation - Sreeja Devi, P.S., Jijymol, K.K., Neethu, S. Kumar, Santhoshkumar, R. and Raveendran, P.B.

Monitoring pollution using diversity indices, density and biomass of tree species from Kavil Shree Maheswarashramam (Sacred grove) from Nedumangad, Thiruvananthapuram. - Jaseela F, Nisha, S.A., Jaishanker, R., Sooraj, N.P. and Saroj Kumar, V.

Categories

- Subscriptions
- Advertise in the Journal
- Information For Librarians
- Recommend the Journal

Information for Authors

- Instructions to Authors
- Publication Ethics
- Conflict-of-Interest Statement
- Statement of Informed consent
- Statement of Human and Animal Rights
- Peer Review Process
- Copyright Infringement
- Submit Manuscript

JOURNAL OF ADVANCES IN BIOLOGICAL SCIENCE



Journal of Advances in Biological Science – Volume 3 (Issue 1 and 2) Published

Journal of Advances in Biological Science is sponsored by the Post Graduate Department and Research Center of Botany, Mahatma Gandhi College, Thiruvananthapuram, Kerala, India and is in print version for articles on all aspects of Biological Science. The Journal was started in 2014. Now the Journal is available in Online also ([www. jabscience.in](http://www.jabscience.in)).

New Guideship approved by University of Kerala

Dr. Santhoshkumar, R.

Dr. Praveen Kumar, B.R.

Dr. Sumitha, V.R.

Dr. Neethu, S. Kumar

Dr. Rajesh Kumar, T.

Dr. Sreeja Thankappan

New Students Registered for Ph.D.

Rohini

Nisha, S.A.

Neethu Vijaya Kumar

Vidhya, A.S.

Rajeswari, S.

Chinthu

FINANCIAL SUPPORT FROM VARIOUS AGENCIES

FIST Supported: During this academic year about 1 lakh rupees sanctioned as FIST grant. This fund utilized for purchasing of two computer systems and a projector in the Department.

Fund Sanctioned from University of Kerala: Rs. 25000/ received as Research Grand from University of Kerala during the academic year; for this fund utilized for purchasing of a pH meter, Colorimeter and Culture tubes

RESEARCH ACTIVITIES

Name of student Enrolled	Title of Topic	Funding Agency	University	Name of the Supervisor
Research Scholars Submitted Ph.D.				
Priya Gopinath.T	“Algal biodiversity of Vellayani lake with reference to seasonal variation”	KSCSTE	Kerala University	Dr. K. G. Ajit Kumar
Anila Pajayan	“Studies on the pond ecosystem in Govt. Botanical Garden and Zoo, Thiruvananthapuram, Kerala”	SC/ST Development Department	Kerala University	Dr. K. G. Ajit Kumar
Research Scholars Continuing Ph.D.				
Geetha, R. Nair	“Anti hepatotoxic, antioxidant and pharmacognostic studies of <i>Asystasia chelonoides</i> var. <i>chelonoides</i> ”		Kerala University	Dr. M. Jayasree

ARTICLES PUBLISHED

1. Anila, P. Ajayan and Ajit Kumar, K.G. (2016) New Geographical Distribution of *Euleneria clepsydroides* (Euglenophyceae) from India. *Indian Journal of Tropical Biodiversity* Volume 24(1): 100-102
2. Arya S and T. Rajesh Kumar (2017). Noval traits for identifying *Amaranthus spinosus* using systematic and biochemical studies. *International Journal of Advanced Research* 5(1), 1579-1584.
3. Divya, K. R. (2016) Review On Single Technology For Heavy Metal Remediation. *Journal of Advances In Biological Science*, 3 (1&2), 50-52
4. Megha Murali, Arun S. Nair and Neethu S. Kumar (2016). Invitro antimicrobial activities Wheat grass. *J. Pharm. Sci. Innov.* 2016; 5(6) Pages: 201-204.
5. Megha Murali, Archa Raj M, Akhil S.A, Liji R.S, Sruthy S. Kumar, Anju M. Nair and Neethu S. Kumar (2016). A Comparative Phytochemical Analysis Of Fresh And Dried Leaf Extracts Of *Triticum aestivum* (L). *Int.J.Pharm.Sci.Rev.*, 40(1), September – October 2016; Article No. 56, Pages: 307-312.
6. Neethu S. Kumar (2016). “*Bacopa monnieri* (L): A pharmacological review”. *Journal of the All Kerala Private College Teacher’s Associaton*, September-October 2016, Page no. 26- 28.
7. Neethu S. Kumar , Neethu Simon K and Parvathy B.M (2016). Invitro antimicrobial activities and phytochemical analysis of *Morinda tinctoria* (L) leaf extracts. *Int.J.Pharm.Sci.Rev.*, 38(1), May-June 2016 ; Article No.10, Pages: 58-61.
8. Neethu S. Kumar , Parvathy B.M and Neethu Simon (2016). Isolation of an alkalophilic protease producing *Bacillus* Sp. from soil and its stain removal properties. *J. Pharm. Res.*, 2016; 5(3): 30-33.
9. Neethu S. Kumar and Thankamani V (2016). Biodegradation of distillery melanoidins by a novel fungus in optimized medium. *International Journal of Scientific & Engineering Research*, Volume 7, Issue 8, August-2016 pp. 532-538.
10. Neethu S. Kumar, Arun S.Nair, Anju M.Nair and Megha Murali (2016). Pharmacological and therapeutic effects of triphala – A literature review. *Journal of pharmacognosy and phytochemistry*, 5(3): 23-27.
11. Neethu S. Kumar, Megha Murali, Anju M.Nair and Arun S.Nair (2016). Green blood therapy of wheat grass –Nature’s finest medicine –A literature review. *IOSR Journal of pharmacy and biological sciences*, Volume 11, issue 2 Ver.I (Mar. –Apr. 2016), pp 57-64.
12. Neethu S. Kumar, Sreeja Devi P.S and Arun S. Nair (2016). A Review on Microbial Proteases. *International Journal of Advanced Research*, Volume 4, Issue 7, 2048-2053.
13. Neethu S.Kumar (2016). “Green blood therapy of wheat grass , Nature’s finest medicine”. *Journal of the All Kerala Private College Teacher’s Associaton*, 255 June 2016, Page no. 66.
14. Neethu S.Kumar and Dhanyaraj F.S (January –February 2016). Phytochemical Analysis of an antimicrobial activities of *Sesbania grandiflora* (L.) Leaf extracts. *Int.J.Pharm.Sci.Rev.*, 36(1), Article No.24,Pages 144-148.
15. Neethu S.Kumar and Neethu Simon (2016).Invitro antibacterial activity and phytochemical analysis of *Glyricidia sepium* (L) leaf extracts. *Journal of pharmacognosy and phytochemistry* 5 (2) :131-133.
16. Neethu S.Kumar and Neethu Simon (2016).Invitro antimicrobial activities and phytochemical analysis of crude leaf extracts of *Thespesia populnea* (L). *International Journal of Current Research in Life Sciences*, Vol. 05, No. 03, pp. 566-568, March 2016.
17. Neethu S.Kumar and Neethu Simon K (2016).Invitro antimicrobial activities of leaf extracts of five indigenous medicinal tree species from semi arid regions of Kattakada, Kerala, India. *International Journal of Advanced Research* , Volume 4, Issue 5, 647-653.
18. Neethu S.Kumar and Neethu Simon K (2016).Preliminary phytochemical analysis of leaf extracts of five indigenous medicinal tree species from semi arid regions of Kattakada, Kerala, India. *International Journal of Advanced Research* , Volume 4, Issue 4, 956-960.
19. Neethu S.Kumar, Neethu Simon and Santhosh Kumar R (March –April 2016). Invitro antimicrobial activity and phytochemical analysis of *Murraya koenigii* leaf extracts. *IOSR Journal of pharmacy and biological sciences* , Volume 11, issue 2 Ver.II (Mar. – Apr. 2016), pp 17-20.
20. Neethu Simon K, Santhoshkumar R and Neethu S Kumar (2016). Phytochemical analysis and antimicrobial activities of *Annona squamosa* (L) leaf extracts. *Journal of Pharmacognosy and Phytochemistry*, Vol-5, No-4, Pages: 128 - 131, 2016

21. Neethu S. Kumar and Thankamani V (2016). Characterization of Molasses Spentwash Collected From United Spirits Ltd., Aleppey, India – A Preliminary Report. *International journal of Biotechnology and Biochemistry* ISSN 0973-2691 Volume 12, Number 2 (2016) pp. 103-110.
22. Priya Gopinath, T., Ajit Kumar, K.G. (2016) Algal indices as a tool to assess the water quality status of a fresh water lake in Thiruvananthapuram District, Kerala. *Indian Journal of Tropical Biodiversity* 24(1):96-99
23. Santhoshkumar R., Bhat, K.V. (2016) Variation in moisture content and density within the internode of the culm of *Bambusa bambos* and *Dendrocalamus strictus*. *Indian J Trop Biodiv*, Vol-24, No-1, Pages: 103 - 105, June 2016
24. Santhoshkumar, R. (2016) Normalisation of Marks in Competitive Examinations, Eligibility Tests of the UPSC Present Problems and a Solution in the “Perfect List Rotating Method”. *Mainstream*, Vol-LIV, No-26, Pages: 33 - 35, June 2016
25. Santhoshkumar, R. and Lalithambika, R. (2016) Introducing New Policy in Real Estate—Special Attention to Control Black Money: Facts and Challenges. *Mainstream Weekly*, Vol-54, No-39, Pages: 27 - 29, September 2016
27. Santhoshkumar, R. and Neethu, S. Kumar (2017). Systematically Introduce API (Academic Performance Indicators) Score in Higher Education. *Mainstream*, Volume LV, 21-31
28. Shibu Krishnan, K., and Ajit Kumar, K.G. (2016). Analysis of the water quality of a Dam in Thiruvananthapuram, District Kerala. *Journal of Advances in Biological Science*, Volume 3 (Issue 1 and 2): 25-27
29. Shibu Krishnan, K., Ajit Kumar, K.G. (2016) Study on the physico-chemical parameters of water quality of Aruvikkara dam, Thiruvananthapuram District, Kerala. *Indian Journal of Tropical Biodiversity* 24(1): 92-95
29. Sreeja Devi, P.S., Jijymol, K.K., Neethu, S. Kumar, Santhoshkumar, R. and Raveendran, P.B. (2016) Variation in Density and Moisture content in Bamboo culms, *Bambusa vulgaris* var. *striata* (Lodd.ex Lindl.) before and after the sprouting in vegetative propagation. *Journal of Advances in Biological Science*, Vol-3, No-1 and 2, Pages: 15 - 17, December 2016
30. Sumitha, V.R., Gangaprasad, A. and G.M. Nair (2016). Comparative analysis of RAPD and ISSR in Characterization of *Geophila repens* L. *International Journal of Advanced Research*, Volume 4, Issue 3. 1478-1491
31. T. Rajesh Kumar, C.K. Padmapriya and K.R. Divya (2016). Comparative Study Of Some Medicinally Important Members Of Family Menispermaceae From Kerala. *Indian Journal Of Tropical Biodiversity* 24(2). 136-143
32. Rajesh kumar Thaliyangal, Yusuf Akkara and Santhosh Kumar (2016). “Morphological characters and Random Amplified Polymorphic DNA based genetic diversity analysis of *Curcuma* species (Zingiberaceae) from India” *International Journal of plant, Animal and Environmental Sciences*. 6(4): 38-52.

PROCEEDINGS AND EXTENDED ABSTRACTS.

1. Arya S and Rjesh Kumar T, Comparative study on the effect of fertilizers on agronomic and biochemical characters in *Amaranthus* species. *Genomics in Health and disease*. 29th Kerala science congress. 28-30 January 2017 P.p. 71

AWARD

Dr. Neethu, S. Kumar, received the Best Researcher Award in Mahatma Gandhi College during the Academic year

PARTICIPATION IN INTERNATIONAL CONFERENCE

Anila : She was a Ph.D. Scholar, participated 26th World Lake Conference in Bali, Indonesia on 7-11 November, 2016

RESULTS

UG Result

Number of students Registered	Number of Students Passed	% of Pass	University Average
27	11 (Course Passed)	40.74	40.15

PG Result

Number of Students Registered	Number of Students Passed	Number of First Class
13	11	11 (Above 60% of Marks)

ACHIEVEMENTS

RANK IN UNIVERSITY EXAMINATION

Arya secured 8th Position in M.Sc. Botany Result

FELLOWSHIP

Aswathy, V. Nair, M.Sc. Student was Selected for Prathibha Scholarship of Kerala State Council for Science Technology and Environment (For M.Sc. First and Second Year; Rs. 100000/ for Two years)

STUDENTS QUALIFIED IN UGC/CSIR NET/JRF

Former students of this department,

1. Parvathy, S. Nair qualified CSIR JRF,
2. Parvathy, B.M. qualified NET for Lectureship

PTS MEETINGS

**PTS MEETING CONDUCTED FOR B.Sc. BOTANY AND M.Sc.
BOTANY DURING THE ACADEMIC YEAR 2016-2017**



NEW YEAR CELEBRATION



STUDY TOUR

STUDY TOUR CONDUCTED FOR M.Sc. FIRST YEAR STUDENTS

For M.Sc. first year students study tour was conducted from 27/6/2016-30/6/2016 at various places of Kerala and Tamil Nadu. Various places of Wayanad and Ooty visited during programme. Different plant species were collected from Ooty Botanical garden and preserved for herbarium as per the syllabus. Most of the students in M.Sc. first year were participated. Dr. Rajesh Kumar, T. and Dr. Divya, K.R. coordinated the tour programme.



STUDY TOUR FOR B.Sc. BOTANY FINAL YEAR STUDENTS AND M.Sc. FIRST YEAR STUDENTS

A combined study tour programme was conducted for B.Sc. Botany and M.Sc. final year students from 18/2/2017- 23/2/2017. During the programme visited different places of Kerala, Tamil Nadu and Karnataka. Different species were collected from Ooty Botanical Garden and also visited Tea Factory at Ooty. Then visited selected places of Wayanad. Then visited Sri Chamundi Hills, Mysore Palace, Brindavan Garden and Coorg.



WORLD WETLANDS DAY CELEBRATION

World
Wetlands Day
2 February 2017

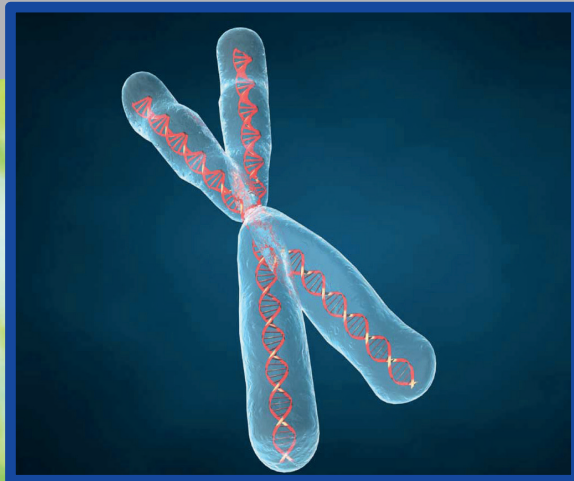


Wetlands for Disaster
Risk Reduction

WORLD WETLANDS DAY CELEBRATION IN MAHATMA GANDHI COLLEGE

Post Graduate Department of Botany Mahatma Gandhi College, Thiruvananthapuram in collaboration with Kerala State Science Technology and Environment conducted two days programmes in connection with World Wetlands celebration 2017. For conducting the programme 9th February, 2017 and 10th February 2017 were used. The major programmes include Quiz Competition, Greening the Campus through Teachers-Students Participation and Invited talks.





NEWSLETTER COMMITTEE

Dr. Santhoshkumar, R.

Dr. Praveen Kumar, B.R.

Dr. Sumitha, V.R.

Dr. Neethu, S. Kumar

Dr. Rajesh Kumar, T.

Dr. Sreeja Thankappan

Dr. Divya, K.R.

Dr. Akhila, H.

