

FATIMA MATA NATIONAL COLLEGE

AUTONOMOUS

(Reaccredited with 'A' Grade by NAAC)

Affiliated to University of Kerala



7.2.1 Fatima Go Green Mission

IQAC INTERNAL QUALITY ASSURANCE CELL

FATIMA GO GREEN MISSION



I. OBSERVANCE OF “GREEN DAYS”

Fatima observes the major Environment Days by organising seminars and competitions related to the events.

WORLD ENVIRONMENT DAY

- Conducted by **NSS** on 5 June 2014. Saplings were planted in the campus by the NSS volunteers. A seminar was conducted on the importance of preservation of Nature.





- **Department of Zoology** celebrated the World Environment Day on 05.06.2016, with assistance from KSCSTE, Trivandrum, by organizing intercollegiate quiz, essay and elocution competitions on the focal theme “**Connect with Nature**”. An Inter-Department elocution competition was also conducted on the topic “*Your Contribution to an Eco-friendly Campus*”.
- On 05.06.2016, **NSS** celebrated the World Environment Day by planting saplings in the campus. The saplings were received from the Forest Department. NSS volunteers coordinated the planting of saplings and distributed saplings among the students and the staff of the college.
- World Environment Day 2017 was celebrated by campus cleaning.



- The World Environment Day-2017 was celebrated by **Naval NCC** Subunit on June-5. The theme of the day was **'Connecting People to Nature'** The programme included tree plantation, and collection and disposal of plastic waste from the college premises. The Cadets participated in the campaign with great enthusiasm and also promised to keep the environment clean and green.



- In 2018, India hosted the World Environment Day Celebrations and the focal theme was **Beat Plastic Pollution**. The PG & Research **Department of Zoology and NSS** have initiated the theme activity on 5th June, 2018 by

starting the **“One Million Plastic Bottle Collection Drive”** from the College Campus.



25/06/2018 : 10 am
Inter Department Education Competition on Plastic Pollution
Election Moderator : Dr. Charles George D'Cruz,
*Former Head & Associate Professor,
 Dept. of Zoology, FMNC, Kollam*

First Prize : Certificate and cash award of Rs. 1000/-
Second Prize : Certificate and cash award of Rs. 750/-

25/06/2018 : 2 pm
Inter College Quiz Competition on Environment and Pollution
Quiz Master : Dr. Johnson Pius,
*Former Associate Professor Dept. of Zoology,
 FMNC, Kollam*

First Prize : Certificate and cash award of Rs. 2000/-
Second Prize : Certificate and cash award of Rs. 1500/-

ORGANIZING COMMITTEE

Chairperson : Dr. Vincent B Netto
Principal

Convener : Dr. Antony Akhila Thomas
Assoc. Prof & HOD, Department of Zoology

Programme Co-ordinator : Dr. Sarlin P J
Asst. Prof., Department of Zoology

Members : Dr. Sherly Williams E
Dean & Assoc. Prof., Department of Zoology
 Ms. Nisha Thomas P
Asst. Prof., Department of Zoology
 Dr. Soethal Lal S
Guest Lecturer, Department of Zoology
 Dr. Vijayarao A S
Guest Lecturer, Department of Zoology

For further details please contact:
 Dr. Sarlin P J
 Programme Co-ordinator, Asst. Professor,
 Department of Zoology, FMN College (Autonomous), Kollam
 Phone : 9747887665

WORLD ENVIRONMENT DAY CELEBRATION
JUNE 26, TUESDAY 2018

THEME : BEAT PLASTIC POLLUTION

ORGANIZED BY



**PG AND RESEARCH DEPARTMENT OF ZOOLOGY,
 FATIMA MATA NATIONAL COLLEGE (AUTONOMOUS), KOLLAM, KERALA**

SPONSORED BY



**KERALA STATE COUNCIL FOR SCIENCE TECHNOLOGY AND ENVIRONMENT
 GOVERNMENT OF KERALA**



Dear Sir/Madam,

World Environment Day is the UN's most important day for encouraging worldwide awareness and action for the protection of our environment. It is the "people's day" for doing something to take care of the Earth. It can be a solo action or involve a crowd.

This year India hosts the World Environment Day Celebrations and the focal theme is: **Beat Plastic Pollution**. Plastic pollution is the accumulation of plastic products in the environment that adversely affects wildlife, wildlife habitat, or humans. Slow, silent, omnipresent, ever increasing, more toxic than previously thought, the plastic pollution's reality bears sobering consequences, as unveiled by recent studies.

It is known however that health effects vary depending on who is exposed and when. Infants and pregnant or nursing mothers are at heightened risk from toxic exposure.

All over the world the statistics are ever growing, staggering. Tons of plastic debris is discarded every year, everywhere, polluting lands, rivers, coasts, beaches, and oceans. Each year 13 million tonnes of plastic leaks into the oceans. Projections indicate that by 2050, the ratio of fish to plastics in the ocean could be 1:1.

Plastic is an indispensable component of modern life. As such plastic is not the problem, but our attitude is. Majority of plastics can be recycled, but we fail to do so. We must change our life style and reduce dependence on plastic, refuse whenever possible and reuse the reusable items and recycle all plastic when they can't be used anymore.

Earth is the ONLY planet that can sustain LIFE. It is home to almost 8.7 million life forms. We humans are the only ONE that can do something to protect the HOME and fellow living beings. Unfortunately we are the ONE rocking the boat. Our imprudent actions have done enough damage. We must clean the house at least on this eleventh hour, else it will be of no use.

PG & Research Department of Zoology and NSS have initiated the WED theme activity on 5th June, 2018 by starting the "One million plastic bottle collection drive" at our campus. This year **World Environment Day** is celebrated in our college on **26th June, 2018**. The event will be presided by our Principal, Dr. Vincent B. Netto and Mr. Shibu Krishnan, Assistant Professor, Head of Environmental Engineering Division, Dept. of Civil Engineering, College of Engineering, Thiruvananthapuram, will inaugurate and deliver the keynote address. We earnestly solicit the support and co-operation of all staff and students to make the programme a grand success.

Dr. Sarlin P J
Programme Co-ordinator
Dr. Antony Akhila Thomas
Convener, HOD
Dr. Vincent B Netto
Principal

VENUE : GOLDEN JUBILEE HALL

Programme

Inaugural Session : 26/06/2018 at 11 am

Invocation : **Teresa AJ**
PG II Student

Welcome : **Dr. Antony Akhila Thomas**
HOD, PG & Research Department of Zoology

Presidential Address : **Dr. Vincent B Netto**
Principal, Fatima Mata National College, Kollam

Inauguration and Key Note Address : **Mr. Shibu Krishnan, Assistant Professor,**
*Head of Environmental Engineering Division,
 Dept. of Civil Engineering, College of Engineering,
 Thiruvananthapuram*

Felicitation : **Dr. Sherly Williams E**
Asst. Prof. & Dean, PG & Research Dept. of Zoology

Dr. Ignatius J
NSS Co-ordinator, Department of Physics

Prize Distribution :

Vote of Thanks : **Dr. Sarlin P J**
Programme Co-ordinator

- On June 05, 2018, World Environment Day was observed by **NSS** by planting saplings in the campus. 100 saplings were received from the Forest Department. 25 saplings were planted in the campus. Remaining saplings were distributed among volunteers, students and staff of the college.



- World Environment Day was celebrated by **NCC (NAVAL)** Unit on 05.06.2018. The message of the day was reject single-use plastic. **“Refuse what you can’t Re-use. Together, we can chart a path to a Cleaner, Greener World.”**





- World Environment Day was celebrated by Department of Botany on 11.06.2019

World Environment Day Celebration
illustrated lecture & Exhibition

IMAZING CLICKS

11th June, 2019



Organized by

POST GRADUATE AND RESEARCH
DEPARTMENT OF BOTANY
FATIMA MATA NATIONAL COLLEGE
(Autonomous), KOLLAM-1

Programme

10.00 am	: Theme Presentation
10.15 am	: Inaugural Session
Prayer	: Kumari Arya Ramachandran
Welcome	: Mrs. Siji V Student Coordinator
Presidential Address	: Dr. Marilyn V.J. HOD Botany, FMNC
Inauguration	: Dr. Vincent B. Netto Principal, FMNC
Guest of Honour	: Mr. Sali Palode Nature & Wild Life Photographer
Felicitation	: Mrs. J Nirmala Jeyarani Associate Professor, Dept. of Botany
	: Dr. A.S. Rubin Jose Assistant Professor, Dept. of Botany
Vote of Thanks	: Ms. Nanditha R S Research Student
11.00 am	: Tea Break
11.15 am	: Illustrated Lecture Mr. Sali Palode Wild life & Nature Photographer

Documentary & Craft Exhibition

trash to treasure





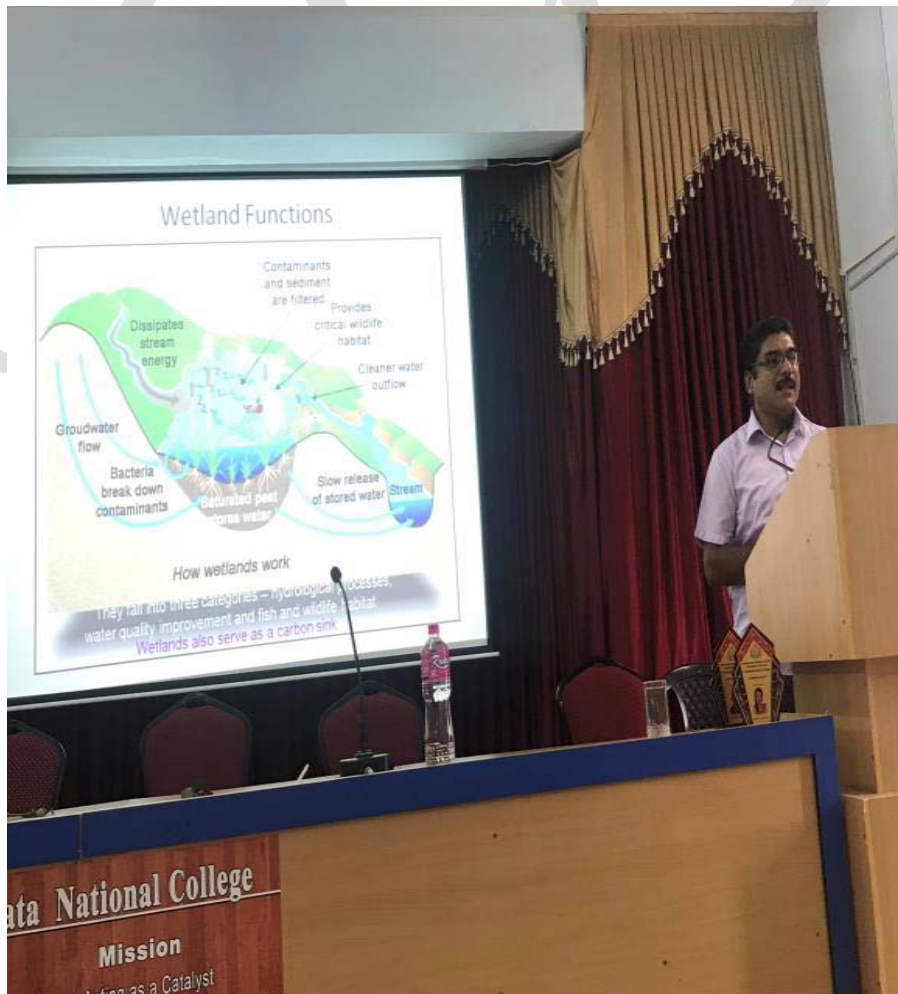
WORLD WETLAND DAY

- Organized by **Department of Zoology** on 02.02.2015, sponsored by Kerala Forest and Wildlife Department and WWF India.
- Department of Zoology organized a seminar on **Wetlands: Kidneys of the Earth** on 30.01.2016. The key note address was delivered by Mr Renjan Mathew, Deputy Director, WWF.
- In the seminar conducted by **Department of Botany** on 10.01.2018, Dr. Rubin Jose delivered a talk on **‘Conservation of Wetlands’**. Ms Amrutha presented a paper on “Wetlands of Kollam District”.



- On 8th FEBRUARY 2019, **Department of Zoology & Environment Club** with the support of Kerala State Council for Science, Technology and Environment (KSCSTE), Thiruvananthapuram observed the World Wetlands Day, 2019. In connection with the event, on 5th February, an inter-department Elocution Competition was conducted on “Wetlands and Climate change”. On 8th February 2019, an inter-collegiate Poster Painting Competition on – “Man and Wetlands – The Vital Link” was also conducted.







WORLD OZONE DAY

- On 18-09-2018, **Department of Botany** observed the World Ozone Day, with a talk on “Preservation of Ozone Layer” by Dr Rubin Jose, Assistant Professor, Department of Botany.





- **Department of Botany** celebrated the World Ozone Day on 17.09.2019. In connection with World Ozone Day celebration inter-school elocution and painting competitions were conducted on September 17th, 2019. Elocution competition was organized for school students, painting competition was organized for school students and college students. Students from various schools participated in the competition. Renowned environmental activist Mr. C.R. Neelakandan inaugurated the programme.

"32 years and Healing"

OZONE DAY CELEBRATION 2019

17th SEPTEMBER, 2019

Guest of Honour
Sri. C. R. Neelakandan
 Environmental Activist

FANTASY COMPETITION & ELOCUTION COMPETITION

Organized by
POST GRADUATE AND RESEARCH DEPARTMENT OF BOTANY
FATIMA BAYA NATIONAL COLLEGE
 (Autonomous), KOLLAM-1
 Supported by PTA, FMMC

Programme Schedule

09.15 am	: Registration
10.00 am	: Inaugural Session
Program	: Botany Chair
Welcome	: Dr. Shaju P.N. (Programme Coordinator)
Presidential Address	: Dr. Vincent B. Netto (Principal)
Inaugural Address	: Sri. C. R. Neelakandan (Environmental Activist)
Benedictory Address	: Rev. Dr. Rolden Jose Jacob (Marigo)
Vote of Thanks	: Mrs. J. Nirmala Jeyarani (Associate Professor, Botany)
11.30 am	: Elocution & Fantasy Competitions
1.00-2.00 pm	: Lunch Break
2.00-2.45 pm	: Competitions Continues
2.45-3.00 pm	: Tea Break
3.00 -3.45 pm	: Valedictory Function
WELCOME	: Dr. A. S. Rubin Jose (Assistant Professor, Botany)
Presidential Address	: Dr. Mariya V. J. (HOD, Botany)
Prize Distribution & Valedictory Address	: Dr. K. Anirudh Babu (Principal, SN College for Women)
Vote of Thanks	: Kunu. Nanditha R.S. (Student Coordinator)

National Anthem









II. “GREEN” SEMINARS AND WORKSHOPS

➤ **National Seminar on “Green Chemistry-Environmental and Economic Benefits”**

Conducted by Department of Chemistry on 24.06.2014. Green Chemistry is the utilisation of a set of principles that reduces or eliminates the use or generation of hazardous substances in the design, manufacture and application of chemical products.



*National Seminar on
'Green Chemistry' (Dept. of Chemistry)
Inauguration by Dr. KN Rajasekharan*

➤ **One day Seminar on “Harithageham Activities and Modus Operandi”**

A one day seminar was organized by Catholic Welfare Association, Diocese of Quilon on “Harithageham activities and Modus Operandi” on October 5, 2014. The seminar focused on ‘Waste management and Reforestation’. The resource person for the seminar was, Dr. F.George D’Cruz, Chairman, Harithageham. Eco Club students participated in this seminar. An Awareness Programme “Haritha Graham” was conducted by the Eco Clubin association with the Environmental Cell of CWA on 12.10.2014

➤ **National Seminar on “Flowering Plant Reproduction & Diversity”**

National seminar conducted by Department of Botany on 09.01.15. Dr. P. Pushpangadhan, Former Director NBRI and JNTBGRI, SERB was the resource person. The seminar was

sponsored by UGC, KSCSTE and Govt. of Kerala. 150 students participated.

Post Graduate Department of Botany
Fatima Mata National College
(Autonomous)
Kollam - 1

National Seminar
ON
Flowering Plant Reproduction & Diversity
Sponsored by
SERB, Govt. of India
UGC
KSCSTE, Govt. of Kerala
9th & 10th January, 2015

PROGRAMME
09.01.2015 (FRIDAY)

8.30 am	:	Registration
9.00 am	:	Inaugural Function
		Prayer
	:	Welcome : Dr Sophiammal Nettar P., HOD Botany & Convenor of the Seminar
	:	Presidential Address : Dr (Sr.) Soosamma Kavumpurath, Principal & Chairperson of Seminar
	:	Inaugural Address : Smt. Honey Benjamin, Hon'ble Mayor, Kollam
	:	Keynote Address : Padmashree Prof. Dr P. Pushpangadan, Director General AIHBPD & Senior Vice President, RBEF (Former Director, NBRI & JNTBGRI)
	:	Vote of Thanks : Dr Shaiju P.N., Organizing Secretary
10.15 am	:	Tea Break
10.30 am	:	Theme I. Diversity of Flowering Plants
	:	Lecture 1 : Dr N Sasidharan, Kerala Forest Research Institute, Thrissur <i>Flowering Plants Diversity of Southern Western Ghats with Special Reference to Kerala</i>
	:	Lecture 2 : Prof. Dr P. Ravichandran, MS University, Thirunelveli <i>Grasses of Western Ghats- Floral Diversity</i>
		Oral Presentations
1.00 PM	:	Lunch Break
2.00 pm	:	Theme II. Systematics & Conservation Biology
	:	Lecture 1 : Prof. Dr G.M. Nair, Inter-University Centre for Genomics and Gene Technology, University of Kerala <i>Conservation Biology—A Holistic Approach: Strategies Revisited</i>
	:	Lecture 2 : Dr Mathew Dan, JNTBGRI, Palode, Thiruvananthapuram <i>Progression of Classification to Systematics</i>
03.30 pm	:	Tea Break
03.45 pm	:	Theme II- Oral Presentations



- **Seminar on “Domestic and Municipal Solid Waste Management”**

Eco Club organized a seminar for the students on ‘Domestic and Municipal Solid Waste Management’ on 31-01-2015. The speakers for the seminar were Dr. Razeena Karim, and Dr. Sherly Williams Associate Professor, Dept. of Zoology. The seminar helped to create awareness among the students about various environmental issues. The Seminar also helped the students in understanding and managing the household waste through simple and easier methods.

- **Seminar On Flowering Plant Diversity and Reproductive Biology**

A national seminar on ‘Flowering Plant Diversity & Reproductive Biology’ was conducted on 7th August, 2015, by the Department of Botany, with the financial assistance from University Grants Commission. The seminar was inaugurated by Dr. P.G. Latha, Director, Jawaharlal Nehru

Tropical Botanic Garden & Research Institute, Palode, Thiruvananthapuram. Two theme lectures were made by Dr. Deepu Mathew, Assistant Professor, College of Horticulture, Vellanikkara, Thrissur and Dr. D. Wilson, Professor & Head, Department of Plant Breeding and Genetics, Kerala Agriculture University, Vellayani, Thiruvananthapuram. The Valedictory Address was made by Shri. Koshy John, Divisional Forest Officer, Punalur. Ten young scientists presented their findings on the major themes. Dr. M. Navas, Technical Officer, JNTBGRI, Palode won the award for best Paper Presentation. More than 200 delegates from various colleges, universities and research organizations participated in the event.







- **Photo exhibition - “Nature through Prismatic Lens”**

Department of Botany organized a two day photo exhibition titled ‘Nature through Prismatic Lens’ on 17th and 18th December, 2015. Around 250 photographs by well known nature and wild life photographers, Mr. Sali Palode, Dr. Jomy Augustine and Mr. Basil Peter were displayed. The

exhibition was inaugurated by the District Collector, Mrs. Shainamol at a function presided over by the Principal, Dr. Vincent B. Netto. More than 1000 students and general public visited the exhibition.



17TH AND 18TH DECEMBER, 2015

PHOTO EXHIBITION

NATURE THROUGH PRISMATIC LENS

ORGANIZED BY

POST-GRADUATE AND RESEARCH DEPARTMENT OF BOTANY
FATIMA MATA NATIONAL COLLEGE (AUTONOMOUS), KOLLAM

INAUGURATION

ON 17.12.2015 AT 10 AM

BY

SMT. A. SHAINAMOL IAS
DISTRICT COLLECTOR, KOLLAM

VENUE: AUDITORIUM, FATIMA MATA NATIONAL COLLEGE, KOLLAM

The poster features two nature photographs: on the left, a green bird in flight near a branch with leaves; on the right, a bee on a white flower.

PHOTO EXHIBITION

"NATURE THROUGH PRISMATIC LENS"

Organized by

POST-GRADUATE AND RESEARCH DEPARTMENT OF BOTANY
Fatima Mata National College (Autonomous), Kollam

17th and 18th December, 2015

Venue: Auditorium, Fatima Mata National College, Kollam

Inaugural Session

17th December, 2015

PROGRAMME

Prayer

Welcome

Dr. Thomas Bennans
Head, Department of Botany

Presidential address

Dr. Vincent B. Netto
Principal, Fatima Mata National College, Kollam

Inaugural Address

Smt. A. Shainamol IAS
Hon'ble District Collector, Kollam

Sharing experiences

1. Shri. Sali Palode
Renowned Wildlife Photographer

2. Dr. Jomy Augustine,
Professor & Head Department of Botany,
St. Thomas College, Pala

3. Shri. Basil Peter
Renowned Wildlife Photographer

Vote of Thanks

Dr. Shaiju P.N.
Assistant Professor, Department of Botany

National Anthem







ഫാത്തിമ മാതാ നാഷണൽ കോളേജിൽ സസ്യശാസ്ത്ര വിഭാഗത്തിന്റെ നേതൃത്വത്തിൽ നടക്കുന്ന ഫോട്ടോഗ്രാഫി എക്സിബിഷനിൽനിന്ന്

പ്രകൃതിഭംഗിയുമായി ചിത്രപ്രദർശനം

കൊല്ലം: പ്രകൃതിയുടെ സൗന്ദര്യം നിറഞ്ഞുനിന്ന ചിത്രപ്രദർശനം കാണികൾക്ക് വ്യത്യസ്ത അനുഭവമായി. കൊല്ലം ഫാത്തിമ മാതാ നാഷണൽ കോളേജിൽ സസ്യശാസ്ത്ര വിഭാഗത്തിന്റെ നേതൃത്വത്തിൽ നടത്തിയ നേച്ചർ ത്രൂ പ്രിന്റിംഗ് ലെൻസ് ദ്വിദിന ഫോട്ടോഗ്രാഫി എക്സിബിഷനിൽ പ്രകൃതിയുടെ പരഞ്ഞിയിക്കാനാകാത്ത വശ്യത നിറഞ്ഞുനിന്നു. പ്രശസ്ത വനം-വന്യജീവി ഫോട്ടോഗ്രാഫർമാരായ സാലി പാലോക്, ഡോ. ജോമി അഗസ്റ്റിൻ, ബേസിൽ പീറ്റർ എന്നിവർ പങ്കൾത്തിയ 250ലേറെ ചിത്രങ്ങളാണ് പ്രദർശനത്തിലുള്ളത്. വനത്തിനുള്ളിൽ മാത്രം കാണുന്ന പൂക്കൾ, പതഞ്ഞൊഴുകുന്ന അരുവി, വനത്തിനുള്ളിൽ മാത്രം കാണുന്ന വൃത്യസ്തയിനം ജീവികൾ, ആനയുടെ നിരാട്ട് എന്നിങ്ങനെയാണ് ഓരോ ചിത്രങ്ങളും. പ്രകൃതിയിലേക്ക് ഒരു മടങ്ങിപ്പോകാൻ നേച്ചർ ത്രൂ പ്രിന്റിംഗ് ലെൻസെന്ന ചിത്രപ്രദർശനം. പ്രദർശനത്തിന്റെ ഉദ്ദേശ്യം വ്യാഴാഴ്ച 10ന് കളക്ടർ എ.ജൈനാമോൾ നിർവഹിച്ചു. കോളേജ് പ്രിൻസിപ്പൽ വിൻസെന്റ് ബി.നെറ്റോ അധ്യക്ഷനായി. പ്രദർശനം സൗജന്യമാണ്. വെള്ളിയാഴ്ച 4.30ന് പ്രദർശനം അവസാനിക്കും.

Mathrubhumi e-paper KOLLAM

Fri, 18 December 2015
digitalpaper.mathrubhumi.com/c/7726676



കൊല്ലം ഫാത്തിമ കോളേജിൽ സംഘടിപ്പിച്ച നാചാൻ ഫോട്ടോ എക്സിബിഷനിൽ വൈൽഡ് ലൈഫ് ഫോട്ടോഗ്രാഫർ സാലി പാലോക് റിഡർമാർക്കുവേണ്ടി കാണിച്ചുകൊടുക്കുന്നു - ദീപിക

Fri, 18 December 2015
ദീപിക deepika.epapr.in/c/7726808



▶ ഫാത്തിമ ഓരോ നാഷണൽ കോളേജിലെ സസ്യശാസ്ത്ര വിഭാഗം സംഘടിപ്പിച്ച ഫോട്ടോപ്രദർശനത്തിൽനിന്ന്

കൊല്ലം > ഫാത്തിമ ഓരോ നാഷണൽ കോളേജിയിലെ സസ്യശാസ്ത്ര വിഭാഗത്തിൽ ആയിരക്കണക്കിന് ഫോട്ടോകൾ എടുത്ത് പ്രദർശിപ്പിച്ചു. ഫാത്തിമ ഓരോ നാഷണൽ കോളേജിലെ സസ്യശാസ്ത്ര വിഭാഗം സംഘടിപ്പിച്ച ഫോട്ടോപ്രദർശനത്തിൽനിന്ന്

ഫാത്തിമ മാതാ കോളേജിൽ ഫോട്ടോപ്രദർശനം തുടങ്ങി

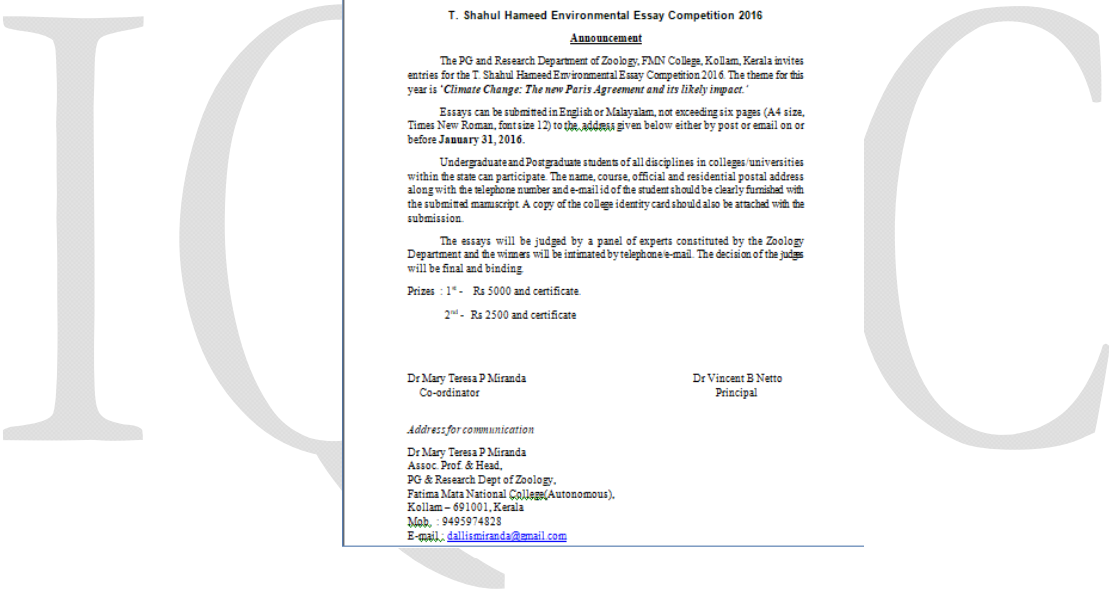
കൊല്ലം > ഫാത്തിമ ഓരോ നാഷണൽ കോളേജിയിലെ സസ്യശാസ്ത്ര വിഭാഗത്തിൽ ആയിരക്കണക്കിന് ഫോട്ടോകൾ എടുത്ത് പ്രദർശിപ്പിച്ചു. ഫാത്തിമ ഓരോ നാഷണൽ കോളേജിലെ സസ്യശാസ്ത്ര വിഭാഗം സംഘടിപ്പിച്ച ഫോട്ടോപ്രദർശനത്തിൽനിന്ന്


• Seminar on Environmental protection

In connection with the inauguration of Eco Club, Dr. Sinilal, Assistant Professor, Department of Botany, FMNC, delivered a lecture on the topic “Environmental Protection” on 16.12.2016. In his talk, he focused on how environmental protection is influenced by three interwoven factors: environmental legislation, ethics and education. Each of these factors plays its part in influencing national-level environmental decisions and personal-level environmental values and behaviours. For environmental protection to become a reality, it is important for societies to develop each of these areas that, together, will inform and drive environmental decisions.

- **T. Shahul Hamid Inter College essay competition on the topic “Climate Change: The New Paris Agreement and its likely Impact”.**

On 04-01-2016, the Department of Zoology organized the T. Shahul Hamid Inter College essay competition on the topic “Climate Change: The New Paris Agreement and its likely Impact”.




FATIMA MATA NATIONAL COLLEGE (Autonomous)
 Kollam - 691001, Kerala, India. Tel.: 0474-2743387, Fax: 0474-2762025
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4-01-2016

T. Shahul Hameed Environmental Essay Competition 2016

Announcement

The PG and Research Department of Zoology, FMN College, Kollam, Kerala invites entries for the T. Shahul Hameed Environmental Essay Competition 2016. The theme for this year is “Climate Change: The new Paris Agreement and its likely impact.”

Essays can be submitted in English or Malayalam, not exceeding six pages (A4 size, Times New Roman, font size 12) to the address given below either by post or email on or before January 31, 2016.

Undergraduate and Postgraduate students of all disciplines in colleges/universities within the state can participate. The name, course, official and residential postal address along with the telephone number and e-mail id of the student should be clearly furnished with the submitted manuscript. A copy of the college identity card should also be attached with the submission.

The essays will be judged by a panel of experts constituted by the Zoology Department and the winners will be intimated by telephone/e-mail. The decision of the judges will be final and binding.

Prizes : 1st - Rs 5000 and certificate
 2nd - Rs 2500 and certificate

Dr Mary Teresa P Miranda
 Co-ordinator

Dr Vincent B Netto
 Principal

Address for communication
 Dr Mary Teresa P Miranda
 Assoc. Prof & Head,
 PG & Research Dept of Zoology,
 Fatima Mata National College (Autonomous),
 Kollam - 691001, Kerala
 Mob. : 9495974828
 E-mail: shahulmiranda@gmail.com

- **Lecture on Biodiversity Status and Global warming**

A seminar on Biodiversity status and Global warming was jointly conducted by Eco Club and Department of Botany on 07.01.2017. The theme talk was delivered by Dr. Sinilal, Assistant Professor, Dept of Botany, FMNC, Kollam. In his lecture, he highlighted the biodiversity status of Western Ghats region. Through his talk, students enriched their

knowledge about the endemic organisms and also environmental protection.

- **Workshop on “Ecosystem Service Assessment for the sustainable Management of Ashtamudi and Sasthamkotta Lakes”**

A workshop was conducted from 31.7.2017 to 01.08.2017 by Department of Zoology on “Ecosystem Service Assessment for the sustainable Mangement of Ashtamudi and Sasthamkotta Lakes”.

- **HARITHAYUSH – Seminar cum exhibition on “Health Awareness and the Role of Medicinal Plants”**

An awareness programme on ‘Medicinal Plants’ was conducted by Department of Botany on 14-12-2017. The class on ‘Health Awareness’ was taken by Mr. P.R. Prakash, Success Trainer and Distributor-AYUSH. Twenty nine student members attended the event. The students brought with them some medicinal plants, which were exhibited. A sales counter was also arranged.





- **Poster Competition on “Water Conservation”**

To create an awareness among the students on the importance of Water Conservation, a poster designing competition was held on 20-12-2017. The posters were also displayed in the College.



- **One day workshop on “Nature Photography”**

The workshop was conducted by Department of Botany on 08.03.2018. The technical session had a presentation by Kumari Reshma Benson, MSc Final year student on the topic

‘Bird Watching-Contributions of Dr. Salim Ali and Induchoodan’. It was followed by the presentation of Shri. Basil Peter, Renowned Nature Photographer, Cochin Natural History Society on the topic ‘Nature and Wildlife Photography-An Experience Sharing’.



- **One-day Seminar cum workshop on Domestic Waste Management**

Ecoclub organized a one day seminar cum workshop on domestic waste management on 20.03.2017. The co-organizers of the seminar were District Suchithwa mission. The resource person was Mr. Prasad Lal, Instructor, District Suchithwa Mission. The main focus of the talk was “How to manage your home waste”.

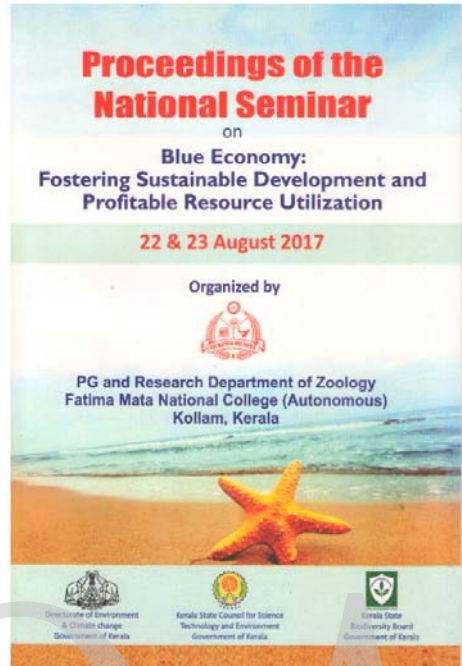
- **Seminar on “Global Warming and Survival”**

A Seminar was organized by NCC (Army) on 27.12.2017. The resource person was Dr George D’Cruz, former Head of the Department of Zoology, FMNC.



- **Blue Economy- Fostering Sustainable Development and Profitable Resource Utilization**

A Two Day National Seminar on “Blue Economy: Fostering Sustainable Development and Profitable Resource Utilization”, organized by PG and Research Department of Zoology on August 22- 23, 2017 at FMN College, was inaugurated by Smt. J. Mercykuttyamma, Hon’ble Minister of Fisheries, Harbour Engineering and Cashew Industry. In her inaugural address, she stressed the need for conserving the ocean resources and curbing aquatic pollution. Mr.T.P. Sreenivasan, IFS, Former Vice-Chairman, Kerala Higher Education Council delivered the keynote address. He spoke on the need for incubating a blue diplomacy.





- **One Day Workshop on Microseeds and Marvellous Research**

Post Graduate and Research Department of Botany, FMNC organized a one day workshop titled “Microseeds & Marvellous Research” on 2nd November 2018. Dr. Albert Prem Kumar, Visiting Scientist, Stockholm University, Sweden, was the Resource person. He delivered lectures on “A-Z of Arabidopsis”, and “Exploring Arabidopsis Genome Mines”. A general awareness on the *Arabidopsis Thaliana* Genome was given to the participants through the technical presentations and discussions.



**POST GRADUATE & RESEARCH
DEPARTMENT OF BOTANY**
FATIMA MATA NATIONAL COLLEGE (Autonomous),
KOLLAM-1

*One Day International Workshop
On*
**MICROSEEDS AND
MARVELLOUS RESEARCH**

2nd November, 2018

Sir/Madam,

Post Graduate and Research Department of Botany is organizing a one day International workshop 'Microseeds & Marvellous Research' on 2nd November 2018. Dr. Albert Premkumar, Visiting Scientist, Stockholm University, Sweden will lead the workshop. The workshop is exclusively designed for PG students, Research scholars and Faculty of Biological Sciences. Kindly make it convenient to participate the workshop along with your fellow faculty and students.

For organizing committee

Dr. Merilyn V.J.
Head
PG & Research Department of Botany
FMNC Kollam




Supported by
Parents Teachers Association 2018-2019
Fatima Mata National College,
Kollam-1

PROGRAMME

02.11.2018 Friday

10.15 am: Inaugural session
 Prayer : Department choir
 Welcome : Dr. Shaju P.N.
 (Assistant professor, Botany)
 Presidential Address: Dr. Merilyn V.J.
 (HOD Botany)
 Inaugural Address : Dr. Vincent B. Netto
 (Principal)
 Guest of Honour : Dr. Albert Premkumar
 (Visiting Scientist,
 Stockholm University, Sweden)
 Honouring of Guest : Mrs. Nirrula Jayarani
 (Associate Professor, Botany)
 Vote of Thanks : Dr. A. S. Rubin Jose
 (Assistant Professor, Botany)

10.45 am : Tea Break
 11.00 am : Technical Session I
 'A to Z of Arabidopsis'
 1.00 pm : Lunch Break
 2.00 pm : Technical Session II
 'Exploring Arabidopsis Genome Mines'
 4.00 pm : Concluding Remarks
 Dr. B Simlal
 (Assistant Professor, Botany)
 4.15 pm : National Anthem














- **PHOTO EXHIBITION ON STROBILANTHES KUNTHIANUS (NEELAKURUNJI) AND ASSOCIATED SPECIES (01.03.2019)**

Department of Botany in collaboration with Dr. Jomy Augustine, Head, Department of Botany, St. Thomas College, Pala, organized a photo exhibition titled '*Neela kurinjiyum Thozhimarum*' on 1st March, 2019 at Botany Laboratory. Dr. Jomy Augustine, HOD Dept. Of Botany, St. Thomas College, Pala, delivered the keynote address. The exhibition was inaugurated by Rev. Fr. Dr. Rolden Jacob, Manager, and FMNC. The first session was a PowerPoint presentation about the *Strobilanthus* (Neela kurinji). In this session, students were introduced to the botanical details of *Strobilanthes kunthianus* and associated species. Seventy four rare photographs of *Strobilanthus* spp. from Western Ghats were exhibited. More than 500 persons participated in the exhibition.

പഠനത്തിലെ ഉയർന്ന നിലവാരങ്ങൾ കോളേജ് സന്ധ്യശാസ്ത്ര വിഭാഗം

ചിത്ര പ്രദർശനം

നീലക്കുറ്റിത്തൊടിപ്പട്ടം തോട്ടിപ്പാലം

മാർച്ച് 1, 2019, വെള്ളി, രാവിലെ 10.30 മുതൽ
സ്ഥലം: ബോട്ടണി ലബോറട്ടറി

ചിത്രങ്ങൾ: ഡോ. ജോമി അഗസ്റ്റിൻ
ബോട്ടണി വകുപ്പ് മേധാവി
സെന്റ് തോമസ് കോളേജ്, പാലാ



ഏവർക്കും സ്വാഗതം
പ്രവേശനം സൗജന്യം





ഒറ്റയ്ക്കല്ല നീലക്കുറിഞ്ഞി, തോഴിമാരും പ്രദർശനം കാണുന്നവർ



▶ ഫാത്തിമ മാതാ നാഷണൽ കോളേജിൽ നീലക്കുറിഞ്ഞിയും തോഴിമാരും പ്രദർശനം കാണുന്നവർ

കൊല്ലം ▶ കുറിഞ്ഞിയെന്നാൽ നീലക്കുറിഞ്ഞി മാത്രമല്ല, കാഴ്ചയിൽ നീലക്കുറിഞ്ഞിയിൽനിന്ന് തികച്ചും വ്യത്യസ്തമായ മുപ്പതോളം കുറിഞ്ഞികൾ വേറെയുമുണ്ടെന്ന അറിവാണു ഫാത്തിമ മാതാ നാഷണൽ കോളേജിൽ നടന്ന ചിത്രപ്രദർശനം നൽകിയത്. നീലക്കുറിഞ്ഞിയും തോഴിമാരും എന്ന് പേരിട്ട പ്രദർശനം


കോളേജിലെ സസ്യശാസ്ത്രവിഭാഗമാണ് സംഘടിപ്പിച്ചത്. കുറിഞ്ഞിയുടെ 33 വിഭാഗങ്ങളുടെ ചിത്രം പ്രദർശനത്തിലുണ്ടായിരുന്നു. കുറിഞ്ഞിയെക്കുറിച്ച് പഠനം നടത്തിയ പാലാ സെൻ്റ് തോമസ് കോളേജ് സസ്യശാസ്ത്രവിഭാഗം തലവൻ ഡോ. ജോമി അഗസ്റ്റിൻ എടുത്ത ചിത്രങ്ങളാണ് പ്രദർശിപ്പിച്ചത്.

- **INVITED LECTURE ON FORESTS AND WILD LIFE, 7th DECEMBER, 2019.**

Environmental Club and Bhoomithrasena jointly organized a lecture on Forests and Wild Life. Shri. Balasankar, S,Section Forest Officer and Assistant Editor, *Aranyam*, Forest Information Bureau, Thiruvananthapuram was the resource person. He talked of the forest ecosystem and its

functioning, the importance of forests and wildlife, and the wildlife that is inside and outside of forests.

Programme Notice



Venue: Botany Seminar Hall
Date: 07.12.2019

Programme Schedule

Starts at 10.00 am

Inception : Students of Environment Club
Welcome : Dr. Saritha P J (Convener, Environment Club, F.M.N.C.)
Invited Lecture : **Shri. S. Balasubaskar** (Lecturer Forest Officer & Assistant Wildlife Officer, Forest Subdivision, Bursur, Thiruvananthapuram)

Food Break Session :

Vote of Thanks : **Dr. Sreedakshmy S G** (Convener, Environment Club)

National Anthem

Invited with
December



III. SWACHH FATIMA INITIATIVES

Swachh Bharat Abhiyan or Swachh Bharat Mission was a nation-wide campaign in India initiated by our honourable Prime Minister for the period 2014 to 2019 that aims to clean up the streets, roads and infrastructure of India's cities, smaller towns, and rural areas. In accordance with the Swachh Bharath Abhiyan, the institution initiated **Swachh Fatima Mission** to keep the Campus spick and span. The Plan envisaged a periodical campus cleaning drive which has to be co-ordinated by the NSS and NCC (Army and Navy) Units, under the supervision of the Programme Officers. A five member Swachh Fatima Committee was constituted for the purpose. As per schedule, various departments would be allocated specific locations for cleaning. The faculty of each department should co-ordinate and supervise the cleaning activities of the respective locations. All the equipment needed for cleaning would be provided. At the end of the session, the students would be given light refreshment.

- Campus cleaning undertaken on 12.08.2016. The campus was cleared of all the solid wastes, which was collected by the Municipal authorities.



- On **June 30, 2017**, a mega campus cleaning was organized. All the students of the college participated in the cleaning activity. The volunteers of the respective Departments coordinated the departmental cleaning activities. The campus and the classrooms were cleaned thoroughly.

- Campus cleaning undertaken on **14.08.2017** as per the **Swachh Bharat Mission** of the Army wing of NCC.



- **SWACHHTA HI SEWA**

The 3(K) Naval Unit NCC of Fatima Mata National College (Autonomous), Kollam joined the nationwide sanitation campaign “**Swachhta Hi Seva**”. Under this programme, 10 days Cleanliness Drive was organized from 22nd September 2017 to 2nd October 2017. The programme included cleaning the college premises and public places, conducting awareness programmes among cadets, poster competition, placard competition etc. More than 40 cadets participated in the cleaning programme conducted in the college campus. They also extended their cleaning programme to the public cemetery at Mulamkadakom. A total of 38 cadets participated in the poster and placard competition held on 25 September 2017. The theme of the competition was ‘Clean India’.





POSTER COMPETITION



- **Suchithwa Mission Evaluation Ceremony**

On 06.11.2017 Mrs. Asa Stephen (NSS P.O.) and Dr. Gretta Ildaphonsa (Vice-Principal, FMNC) attended the Suchithwa Mission Evaluation Ceremony in the Collector's Chamber, Kollam. **They received the award for the FMNC NSS Unit for the third place in the Swachhtha Hi Seva activities which was extended for the institutions in the district.**

- On 2nd July 2018, the campus cleaning drive in the college took place under the initiative of the the NCC Cadets.





- On 14.08.2018, in accordance with the Swachh Bharat programme of the Central Government and Green Protocol of the State Government, the **NCC Naval** Subunit of FMN College took initiative to make the campus clean and plastic free. On August 14, 2018, the campus was declared as 'GREEN

CAMPUS CLEAN CAMPUS' by our respected Vice Principal Dr A.R. Titus.



- On **07-09-2018**, under the **SWACHH FATIMA CLEANING DRIVE**, a mass campus cleaning was organised. The cleaning activities were undertaken from 2 pm to 4 pm in the campus. The various departments and clubs like NSS, NCC, etc were allocated specific locations for their cleaning activities.



- On **15-09-2018**, a team of NCC cadets participated in the SWACHCHATA HI SEVA-INAGURATION (15-09-18). It was followed by **SWACHCHATA HI SEVA-CLEANING CAMPUS.**

NCC cadets of FMNC the cleaned college ground and campus as part of this campaign. Through the campaign cadets succeeded in conveying the message that cleanliness has a very important role in day today lives





- On 21-09-2018, NCC (ARMY) planted saplings in the campus as part of SWACHCHATA HI SEVA




- **On 26-09-2018**, a mass cleaning activity was organised under the banner of **Swachh Fatima** from 1.30 pm to 3.30 pm. Each Department had to clean the respective department premises, class rooms and laboratories.







- On 27-09-2018, NCC (ARMY) cleaned the College garden as part of SWACHCHATA HI SEVA campaign.



NCC ARMY WING



SWACHCHATA HI SEVA-CLEANING GARDEN (27-09-2018)



NCC cadets of FMNC had cleaned the garden as a part of SWACHCHATA HI SEVA campaign on 27th September 2018.

IV. 'PLASTIC FREE FATIMA' MISSION

- **Plastic Bottle Collection Drive - 2018**

As part of the World Environment Day Celebrations 2018 in the College, the Department of Zoology with the support of KSCSTE Thiruvananthapuram, and members of Environmental Club organized a Plastic Bottle Collection Drive, in and around the campus on 05.06.201. The initiative, the first of its kind in the area, was a grand success with 132kg of discarded plastic disposable bottles picked up by the staff and students of the college with the support of NSS Volunteers.





- **Plastic Pen Collection Drive**

Aiming towards sustainable development, AICUF members collected all discarded plastic pens from the campus to send them for recycling. In order to continue the collection process they placed cardboard boxes in all classrooms. The final collection of used pens from all classes was done on 13 - 03- 2019 by the AICUF members. They collected nearly 8kg used plastic pens which was given for recycling.



- **Talk on ‘Harmful Effects of Plastic Waste’**

A talk was delivered by Dr Akhila Thomas, Associate Professor, Dept. Of Zoology, FMN College to the NAVAL NCC cadets.



- **Plastic Waste Removal**

On August 14, 2017, a mega campus cleaning with special focus on plastic removal was organised in the College. The whole college participated in the activity. All the departments were allotted specific areas for clearing the plastic wastes. Almost all the plastic wastes were collected and removed from the campus. The activity started by 11 am and ended at 3.45 pm. The campus was declared as **“Plastic Free Campus”** by the Principal.





V. GREENING THE FATIMA CAMPUS

The NSS and NCC (Army and Navy) Units of the College rendered substantial contribution towards 'Greening the Fatima Campus' initiative.

- **Vegetable Cultivation Project: NSS**

A project submitted by the college NSS unit to Krishi Bhavan, Kollam was sanctioned. Four sites were identified for vegetable cultivation. The NSS volunteers started preparing the ground for cultivation. Seeds were sown in trays and seedlings prepared and replanted later. The ground preparation and plantation process lasted for two months. The volunteers were divided into ten groups and watering works were assigned to each group. Fertilization, application of pesticides and manure, fencing, net supporting etc. were also done.



- **COLLEGE FARM LAND PREPARATION**

The college Farm Land was prepared and cleaned and weeds removed on 22.08.2015. The volunteers started preparing ground for planting plantain saplings. New plants were also planted in the campus. Volunteers were divided into six groups for the preparation of the farm land.



- **College Farm Land preparation**

On 11.06.2016, NSS volunteers cleaned and prepared the plantain field and planted plantain saplings. They also prepared the seed trays. Near about 100 volunteers participated in the activity.

- **College Farm Land Activities**

On 09.07.2016, NSS volunteers prepared the grow-bags and planted saplings. They sorted the sapling bags and

distributed them in proper locations. Near about 100 volunteers participated in the programme.

- **GROW-BAG RE-SETTING ACTIVITIES.**

The NSS volunteers actively participated in grow-bag re-setting activities on 15.10.2016. They prepared the seed-trays.

- **GROW-BAG FARMING ACTIVITIES**

On 12.11.2016, the NSS volunteers planted the saplings in Grow bags and arranged the bags in the field.



- **Neem Green Kerala Project**

40 Neem sapling were planted in the college campus by NSS volunteers on 16.06 2017. It was under the supervision of the coordinators of the “Neem Green Kerala Project”, Mr. K.P. Kannan(Retired from Children Film Society) and Prof. V. Devaki (Retired Professor, S.N. college, Chempazhanty).

The College Principal Dr. Vincent B. Netto inaugurated the project by planting the first Neem sapling.

- **Organic Cultivation Project**

As part of the Green Initiative, **Department of Psychology** launched a project called “Manomukulam” on 22-12-2017. The expectation was to promote ways of healthier living, cultivation and having fresh vegetables that are locally grown, devoid of pesticides and other chemical agents. The collective effort resulted in a very flourishing vegetable garden that yielded crops in plenty. The students equipped with the knowledge provided by the technical support team of Kerala Agriculture Department, cultivated crops both in the college and took the practice to their homes as well.









- **Tree Plantation Drive (NCC Navy & Army)**

In view of social service and community development action plan 2017 of NCC Dte (K&L), the 3(K) Naval Unit NCC participated in the 10 day Tree Plantation Drive under the supervision of the Care Taker Mr Sunil A. The programme created social awareness about the importance of tree plantation. The college conducted awareness programme on GREEN CAMPUS-CLEAN CAMPUS as well as planted trees in college premises and arranged follow up to sustain the project successfully.

During the programme from 5th August to 15th August 2017, a total of 25 saplings of mango tree, jack tree, guava, bread fruit, Indian plum, jambu fruit etc were planted at suitable places of college premises. Cadets showed great enthusiasm in planting them and they

knew their hard work would recharge ground water, prevent soil erosion and preserve nature.



- **Grow Bag Cultivation**

The NSS volunteers of the college actively participated in the grow bag cultivation activities in the campus on 21.10.2017.

They prepared a mixture of compost and manure and applied to the grown trees in the grow bags. They also prepared seed trays and paved seeds for the next day's activities.

VI. FATIMA GREENREGISTER

Fatima Mata National College has a campus which spreads over 12.92 acres. The sprawling campus abounds in greenery and vegetation. The campus of FMNC is rich in its floral composition and faunal variety. Diverse of shrubs, herbs, climbers, small trees and large trees are present in the campus. Avian survey also revealed a rich variety of birds in the Campus. Initiatives have been undertaken to document the rich biodiversity of the Campus.

Campus Tree Labelling

As a Green Initiative Project, on 05-06-2018 Department of Botany set up **Display Plant Name Boards** on the trees of the Campus.



FATIMA CAMPUS TREES:CATALOGUE

<i>Polyalthia longifolia</i> ANNONACEAE
<i>Cycas circinalis</i> CYCADACEAE
<i>Cassia fistula</i> FABACEAE
<i>Swietenia mahagoni</i> MELIACEAE
<i>Araucaria heterophylla</i> ARAUCARIACEAE
<i>Tectona grandis</i> VERBENACEAE
<i>Dalbergia latifolia</i> FABACEAE
<i>Lagerstroemia speciosa</i> LYTHRACEAE
<i>Acasia mangium</i> FABACEAE
<i>Albizia saman</i> FABACEAE
<i>Azadirachta indica</i> MELIACEAE
<i>Morinda tinctoria</i> RUBIACEAE
<i>Mangifera indica</i> ANACARDIACEAE

Ficus racemosa

MORACEAE

Santalum album

SANTALACEAE

Phyllanthus emblica

PHYLLANTHACEAE

Gmelina arborea

LAMIACEAE

Terminalia catappa

COMBRETACEAE

Murraya paniculata

RUTACEAE

Melia azedarach

MELIACEAE

Artocarpus heterophyllus

MORACEAE

Artocarpus hirsutus

MORACEAE

Simarouba glauca

SIMAROUBACEAE

Senna siamea

FABACEAE

Peltophorum pterocarpum

FABACEAE

Kleinhovia hospita

STERCULIACEAE

Diospyros discolor

EBENACEAE

Terminalia elliptica

COMBRETACEAE

Terminalia bellerica

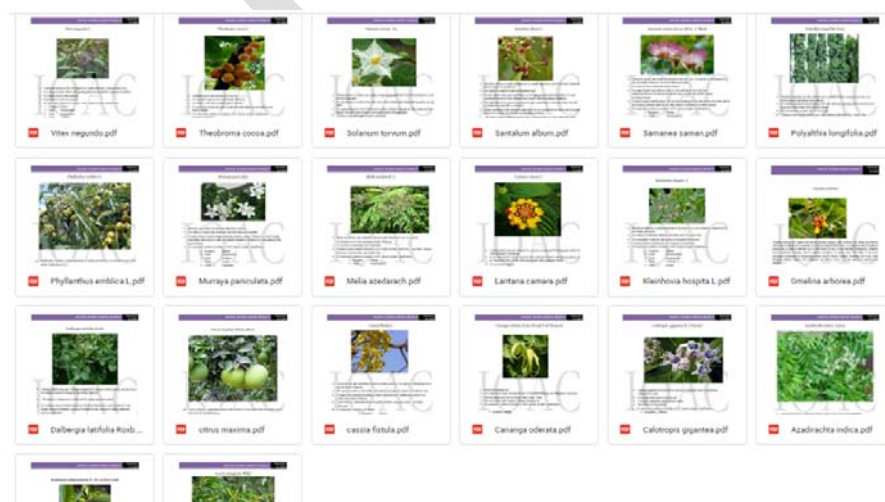
COMBRETACEAE

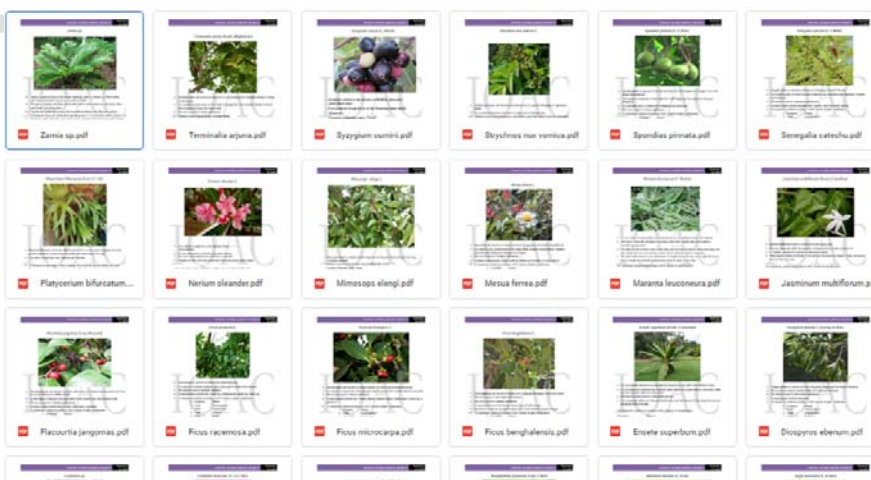
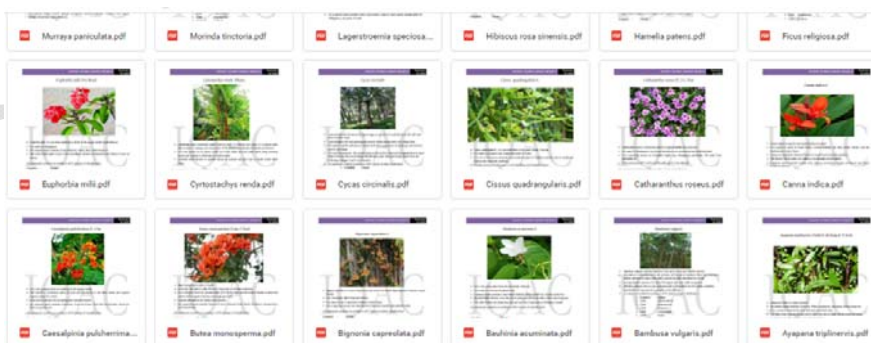
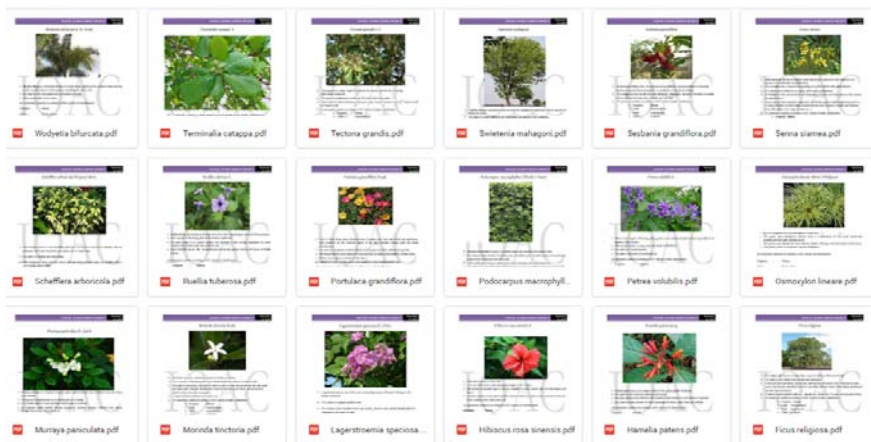
Syzygium cumini

MYRTACEAE

FATIMA DIGITAL GARDEN PROJECT

The plants in the Campus are provided QR Codes, which will be labelled on the plants concerned. The database is maintained at the FATIMA Digital Garden Project page of the college website (<http://botany.fmnc.ac.in/garden/>). The database is self-explanatory, which includes the botanical details of the plants, photographs, points of interest both for a student of Botany and a layman. The page incorporates URLs to detailed information on the plant (HERE).





ANGIOSPERM FLORA

The campus of FMNC is rich in its floristic composition. Diverse of shrubs, herbs, climbers, small trees and large trees are present in the Angiosperm flora of FMNC Campus. A study of the Angiosperm Flora of the Campus revealed angiosperm plant specimens with 121 field numbers, representing 121 species, including naturalized and indigenous plants belonging to 116 genera of 44 families. There are 59 herbs, 25 shrubs, 10 large trees, 9 small trees and 18 climbers. Among the 44 families, there are about 100 dicots and 21 monocots. The Botanical Garden of the campus occupy major plant species, many kinds of shrubs, herbs and climbers.

Birds Club International

Renowned film personality Mr Jayaraj inaugurated Birds Club International in the college campus on 19.07.2017, by planting trees in the selected location set apart as an undisturbed zone to create the ambience of a natural forest habitat. Department of Zoology and NSS Units actively participated in this reforestation programme by planting trees.





Campus Bird Count, 2019

In preparation of the Great Back Yard Bird Count and Campus Bird Count 2019, district level training programme was organized at the College, on 14th February 2019. Mr. A K Sivakumar, Senior Educational Officer, WWF Kerala, Mr Sajith V (Co-

ordinator, WWF and Kerala Biodiversity Board) and Dr. Jishnu (District Medical Officer, Punalur and Co-Ordinator WWF) conducted classes to create awareness about Bird Identification, Bird Counting, and also imparted hands on training on e-bird App. Members of Environment Club and Students from PG and Research Department of Zoology, FMNC and a good number of students from nearby colleges (SN College for Men and St St. Stephen's College Pathanamthitta) were benefitted from the training. Students were guided through the registration and usage of e-bird app- an international electronic facility to scientifically record data of birds worldwide. At the end of the session the volunteers were given field training.







A study on the avian diversity of Fatima Mata National College campus was done as part of Campus Bird Count conducted by WWF on **February 15, 2019**. The survey was conducted between 8 am and 11.30 am. The birds spotted by participating volunteers students at the above sites formed the basis of the study. Students from Department of Zoology and Environmental

Activities actively participated in the survey. The findings were recorded in e-bird.

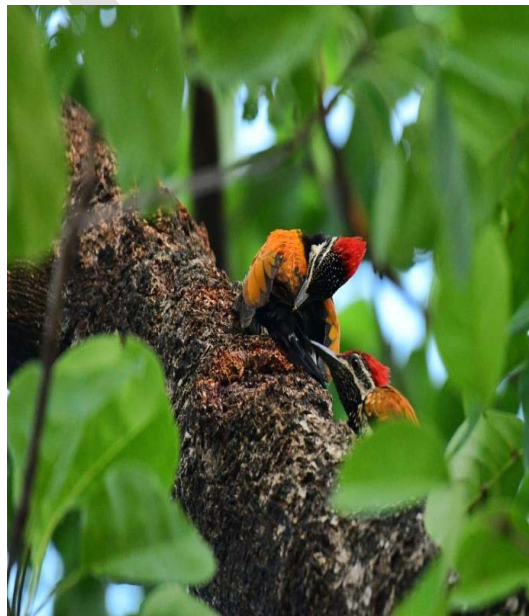
The findings/checklists are available online on ebird.org.

AVIAN DIVERSITY OF FATIMA

Indian Golden Oriole / *Oriolus kundoo*



Common Flame Back (*Dinopium Javanese*)



White Cheeked Barbet (*Megalaima viridis*)



Jungle Owlet (*Glaucidium radiatum*)



Brahminy Kite (*Haliastur indus*)



Indian Roller (*Coracias benghalensis*)



FATIMA GREEN RESERVOIRS

BISHOP JEROME BOTANICAL GARDEN

The college has a well maintained Botanical Garden with a rich diversity of flora. It is a treasure house to students, researchers and scientists in the field of plant science. The Bishop Jerome Botanical Garden is an open gallery of live specimens that reflect the microcosm of the tropical plant diversity of the Western Ghats. Department of Botany has been maintaining the Garden since its inauguration in 1954. The Garden was renovated during the period of 2004 – 2006, with financial assistance from the Ministry of Environment and Forest, Government of India. The major attractions of the Garden include a Green house, Mist Chamber and a Pond. About 221 plants are maintained in this Garden which includes Angiosperms, Gymnosperms, Pteridophytes, trees, shrubs, herbs, climbers, ornamental & medicinal plants. The Bishop Jerome Botanical Garden is the primary repository for the research works of Department of Botany. It is mandatory for the PG students of the Botany Department to plant at least two medicinal plants of rare category in the botanic garden and submit a document based on it.







Green House

In keeping with current trends of plant conservation, a well set Green House was established in the Botanical Garden. It is a rich reserve of rare and vulnerable flora. Based on the nature of study, every researcher can make use of the specimens for their area of research. The Green house is a pool of rich genetic diversity. It covers an area of about 450 square feet.



Botanical Museum

Right from the beginning of the Department of Botany, a well equipped museum was maintained. It is a repository of valuable Botanical specimens and Herbaria with more than 500 sheets. A well maintained Xylarium is an added advantage of the Department. The Museum well serves as a source for research activities and academic pursuits. It comprises foremost specimens of Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms, Lichens, and also ecologically and economically important specimens.

BUTTERFLY GARDEN

To create awareness on the interdependence of butterflies and plants, for promoting the zest for butterfly gardening, habitat creation, restoration and conservation, a Butterfly Garden was set up in the college campus on September 2018, supported by PTA. It was inaugurated by Rev. Dr. Paul Antony Mullassery (Bishop of Quilon). Its plant palette includes 27 well adapted plant species including herbs and shrubs. Butterfly Garden covers an area about 1500 square feet.







Students and Dignitaries at the Butterfly Garden





Butterfly Garden Renovation

On 13.01.2018,NSS volunteers participated in the renovation activities of the butterfly garden .





JANMA NAKSHATRAVANAM (BIRTH STAR GROVE)

Every Janma Nakshatra has a symbolic tree or plant that defines man's connection with eternal nature. A Janma Nakshatra Vanam was established in the college campus, next to the Botanical Garden of the college. 27 plants representing the 27 Janma Nakshatra were planted. Plants were labelled with their binomials and the Nakshara concerned.





SHRUB JUNGLE

Shrub Jungle is a plant community characterized by vegetation dominated by shrubs. A Shrub Jungle was established in college campus during 2018-19. The shrubs are grown under ashady tree cover. The jungle includes aesthetically attractive as well as fruityielding shrubs. The Shrub Jungle was inaugurated by Rev. Dr. Paul Antony Mullassery (Bishop of Quilon). The first saplings of the garden were planted by the Principal and the Manager.





FRUIT PARK

On 26th January 2019, NSS volunteers set up a Fruit Park in the Campus. They tilled and cleared the area set apart for the purpose. They planted the saplings and the area was surrounded by protective fencing.





On 16th February 2019, NSS volunteers took part in the finishing work of the fruit park in the campus.







The NSS volunteers regularly undertake the maintenance of the Fruit Park. On 30th March 2019, the volunteers took part in the maintenance activities of the fruit park in campus. The garden fencing was strengthened. The protective fences for the trees were also strengthened.



INDOOR GARDENING





GREEN THOUGHTS

“Rhythms of Fatima” is a radio programme of FMNC in collaboration with Bishop Benziger FM Radio station. It provides a platform for the promotion of artistic skills and cultural talents of the students. It also gives them an opportunity to voice out their response to social issues. As part of Fatima Green Initiatives, “Rhythms of Fatima” has set apart a time slot for “Green Thoughts”, where topics of environmental concerns are broadcast by our students. This helps us extend our ‘green mission’ beyond the campus to the society at large.



FMNC PUBLICATION – OUR FRAGILE EARTH-HOME

The first book published by FMNC Publications was the text book on Environmental Studies for the I B.A/B.Sc Students – **OUR FRAGILE EARTH-HOME.**



Official Release of the Book by Manager Rev Dr. Rolden Jacob on 13th December 2019



Our Fragile Earth-Home

Core Text for First Degree Programme under
CBCSS for BA/B.Sc Environmental Studies

Compiled by

Postgraduate and Research Department of English

FATIMA MATA NATIONAL COLLEGE
(AUTONOMOUS), KOLLAM

Edited by

Mr Tomson Thomas

Published by

FMNC Publications

@2019

Printed at

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FATIMA'S SHIFT TO "REUSE AND RECYCLE" CULTURE

Fatima has put in place Green Protocol for all the programmes organised by the College. Fatima takes a conscious effort to scale down the use of non-biodegradable materials and shift to eco-friendly items or reusable alternatives in order to accomplish our ecological vision and mission.







DIGITAL BANNER



CLOTH BANNER



FATIMA NATURE DAY

**FATIMA MATA NATIONAL COLLEGE
(Autonomous), KOLLAM-1**

**FATIMA NATURE DAY
CELEBRATION-2019**
A Green Initiative of IQAC

3rd October, 2019

Organized by
Environment Club, Bhoomitraama,
National Service Scheme & National Cadet Corps (FMN College, Kollam)

Supported by
Directorate of Environment and Climate Change, Govt. of Kerala
& Parent Teachers Association, FMN College, Kollam

Venue: College Auditorium
Date: 03.10.2019

Programme

Inaugural Session at 10:30 am

Invocation : **Fatima Green Band**

Welcome : **Dr. Sarlin P J**
(Convenor, Environment Club, FMNC)

Presidential Address : **Dr. Vincent B Netto**
(Principal, FMNC)

Green Band Activities 2019
Inauguration : **Shri. Jyothi. K S**
(Asst. Conservator of Forests, Social Forestry Extension, Kollam)

Fatima Nature Day
Lecture : **Dr. C. Anilkumar**
(Scientist & Head, Conservation Biology Division, INTIGRI, Palode)

Inauguration of
Bhoomitraama : **Rev. Fr. Rolden Jose Jacob**
(Manager, FMNC)

Felicitation : **Dr. Supriya S.**
(Co-ordinator, Green Initiatives, FMNC)

Vote of Thanks : **Dr. Shaju P.N.**
(Co-ordinator, IQAC, FMNC)

National Anthem





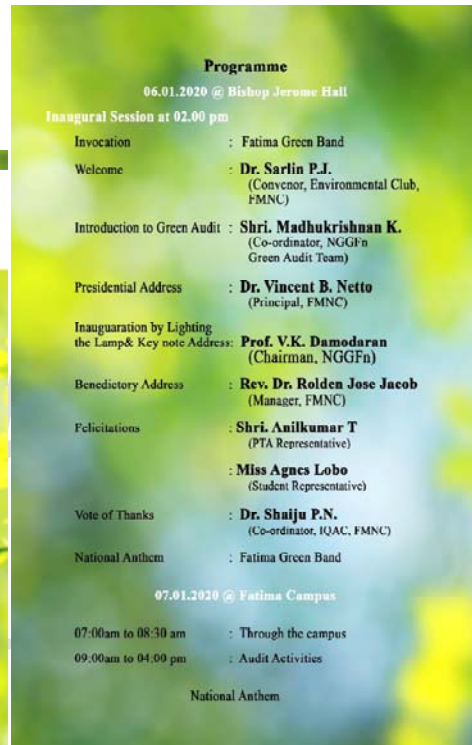
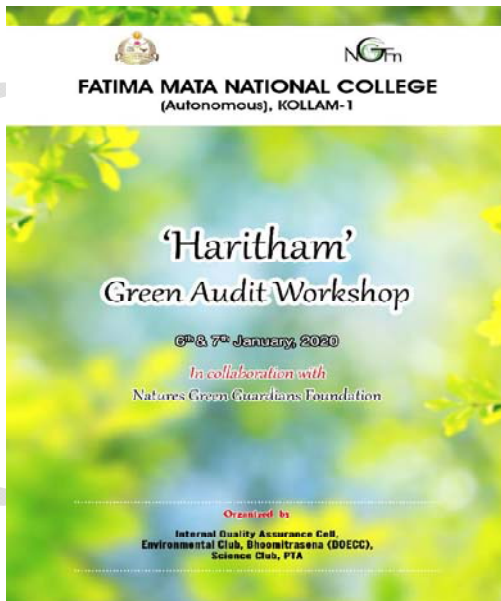
FATIMA GREEN BAND





EVALUATION OF GREEN INITIATIVES

HARITHAM - GREEN AUDIT WORKSHOP





GREEN AUDIT TEAM AT WORK





Green Audit Exit Meeting



VALEDICTORY FUNCTION

PROF. V.K.DAMODARAN, CHAIRMAN NATURE'S GREEN GUARDIANS FOUNDATION PRESENTING THE AUDIT SURVEY



