

CURRICULUM ENRICHMENT ACTIVITIES ON ENVIRONMENT AND SUSTAINABILITY



SEMINAR AND HANDS ON TRAINING ON GREEN SYNTHESIS OF NANO MATERIALS



A session on Green Synthesis of Nano Materials followed by Hands on Training was taken by Dr. Melvi Chandy and Dr. Paulose Thomas, Assistant Professors in Physics, Mar Thoma College for Women, Perumbavoor, respectively, where we came to know about the different methods of synthesizing Nano materials cheaply and easily. We successfully synthesized Silver Nano particles from Silver Nitrate by using two reducing agents Neem leaf water and Amla juice.





SEMINAR ON THIN FILM SOLAR CELLS

On 14 January 2020, Dr. Rajani Jacob, Assistant Professor in Physics, Mar Thoma College for Women, Perumbavoor, took a session on “Thin Film Solar Cells” in which she discussed about three generations of solar cells and explained about the detailed characteristics and improvisations to make solar cells efficient. A Hands-on session on LED Bulb Making was also led by her.

As part of this a presentation competition was also arranged. 5 students participated in that even and all of them presented the need for protecting our environment





VEETIL ORU KARIVEPPU

As part of the Environment Day observance, on June 7, 2017, the students of the department of Zoology distributed Kariveppu saplings in the neighbourhood. Curry leaves are a rich source of iron and folic acid, helps in lowering blood cholesterol and sugar levels and also prevents premature greying of hair. As it is an unavoidable



ingredient in most South Indian dishes, Kariveppu is a requirement in all households . But we see that many switch to buy curry leaves from groceries to meet their needs instead of buying. Being treated with chemical insecticides to prevent pet attacks, the ones brought from grocers do pose health risks. Recognizing the importance of curry leaves, 23 saplings were distributed as part of this extension activity. The extension activity was coordinated by the HoD, Dr. Biju Jacob Thomas.



SEMINAR ON ENERGY CONSERVATION THROUGH STUDENTS

On 18 December 2017, **Department of Physics, Mar Thoma College for Women, Perumbavoor**, took a session on “Energy Conservation through Students' in association with PCRA, ECS SAKSHAM.



LED STAR MAKING WORKSHOP



Workshop session on LED Star making on December 2018. In the workshop organized by Department of Physics, Mar Thoma College For Women, Perumbavoor.





ENERGY CONSERVATION DAY AWARENESS CAMPAIGN

National energy conservation day awareness campaign in association with Energy management centre and SAIF Muvattupuzha.



POST-FLOOD WATER ANALYSIS

Following the floods in 2018, on the 8th of September 2018, under the initiative of the department of Zoology, PG and UG Zoology students along with students of the department of Chemistry initiated an extension activity aimed at analysing the water quality of the water sources in the households in our neighbouring ward Thodaparambu which was badly affected during the floods in Kerala. Though we targeted Thodaparambu, due to requests from people on our way, we collected samples for water analysis from Poopani Ward 8,9,10,11. The collected samples were analysed and reports were given to each house on 19 September 2018





MARTHOMA COLLEGE FOR WOMEN PERUMBAVOOR
WATER ANALYSIS REPORT

HOUSE No: X 200

Parameters Tested	Value	Inference
pH	5	Slightly acidic
Dissolved CO_2	21.52	Slightly acidic
Hardness	40	Soft
Physical appearance	Pale yellow, Particles seen	<u>Filtration</u> needed

Recommendations:-

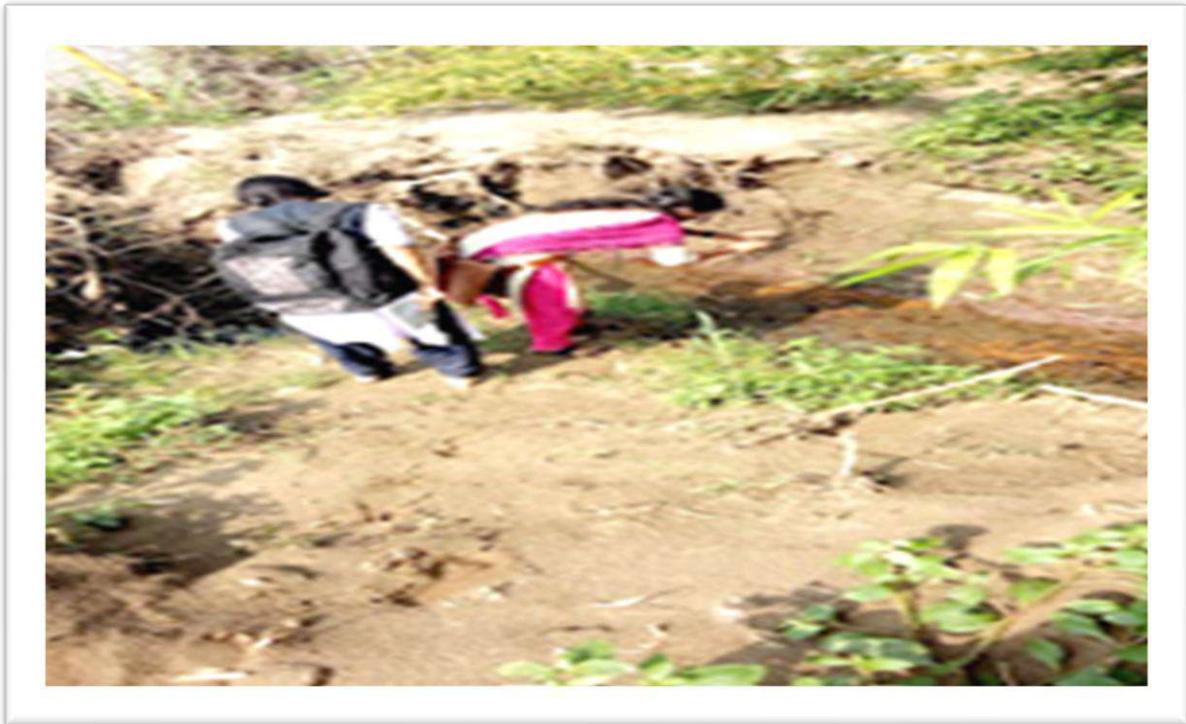
- CaCO_3 application in well/ water source.
- Sedimentation/ Filtration required
- Water should be boiled before drinking.



POST FLOOD RAPID BIODIVERSITY LOSS ASSESSMENT

A team of 7 from the Department of Zoology, inclusive of two teachers, were given the privilege to work in association with the Kerala State Biodiversity Board to survey the flood affected wards of the Koovappady Panchayath. We had ward members, block officers, BMC members and the public participation to conduct the week-long rapid analysis of the biodiversity loss from Oct 20-27, 2018.







LOGO COMPETITION-NATIONAL ENVIRONMENT AWARENESS MONTH OBSERVANCE

The Zoology Association conducted an inter-departmental logo competition in connection with the National Environment Awareness month celebration in November 28 2018, in which we had 12 participants from different departments. Athira Shaji (III B.Com Computer Application), Fathima Jamal (I B.Com Tax), Sharon Thomas (I M.Sc. Zoology) bagged 1st , 2nd and 3rd prizes respectively. A special appreciation prize was given to Rishika Ravi A.R.(I M.Sc. Zoology).

**MAR THOMA COLLEGE FOR WOMEN,
PERUMBAVOOR**

DEPARTMENT OF ZOOLOGY

Organize

**LOGO
CONTEST**

*In connection with
National Environment Awareness Month
Observance*

**Spot
registration**

DATE: 28/ 11/2018 **TIME: 1.00 P.M** **VENUE: ROOM 207**

Ms. Carolin Ann George
Student Coordinator

Ms. Reemy Sara Mathal
Head of the Department

Dr. Lisy Cherian
Principal







ENVIRONMENT DAY CELEBRATION

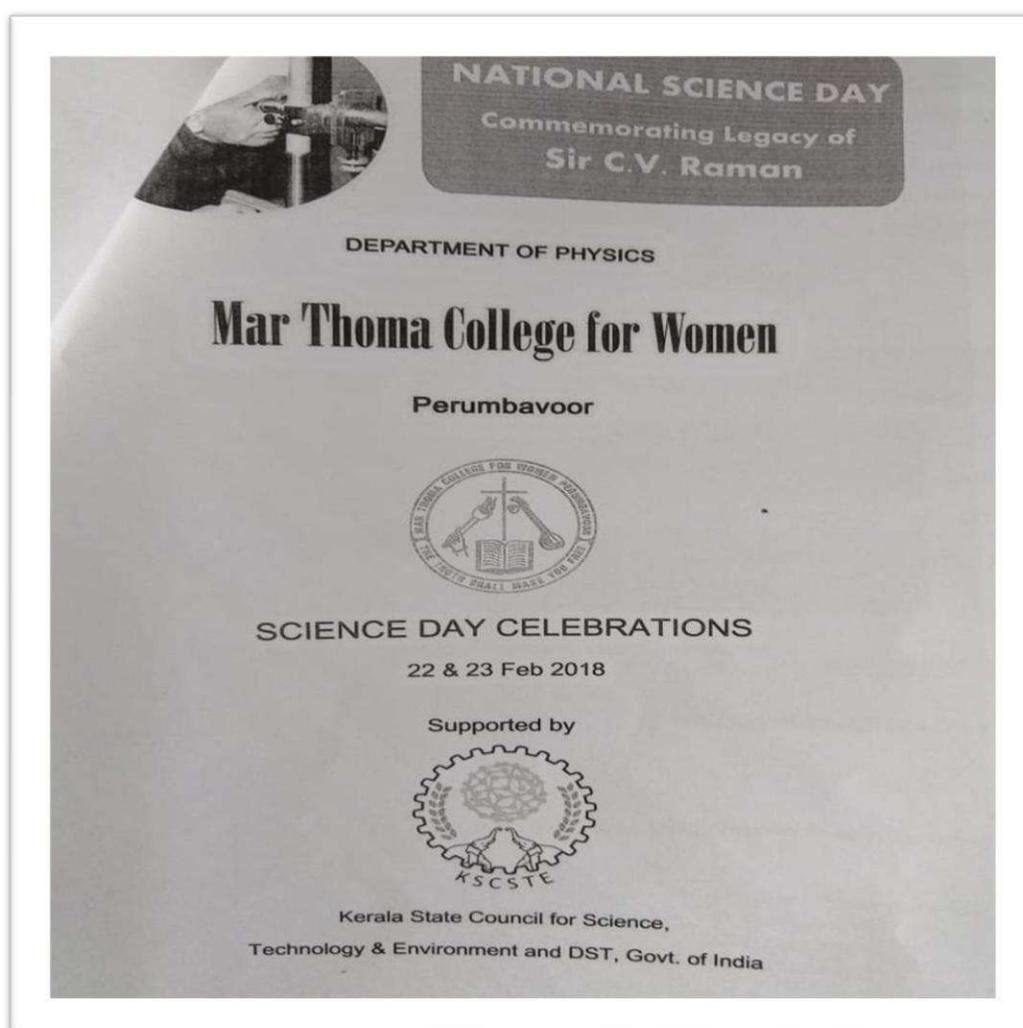
World Environment day Celebration Report -2018

The world environment day is celebrated on 5th June to raise global awareness to take positive environmental action to protect nature and the planet earth. It is a day that reminds everyone on the planet to get involved in environment friendly activities. People come together to pledge towards building a greener planet. Keeping this aim in view, Department of Commerce Computer Application celebrated World Environment Day on 5th of June 2018. They were asked to plant a sapling to create a green corner. A lot of enthusiasm was seen in the students. The event was conducted successfully with whole hearted participation and awareness about plants.



SEMINAR ON NATIONAL SCIENCE DAY CELEBRATIONS 2018

Department of Physics in association with Kerala State council for Science, Technology and Environment and DST, Government of India conducting Science Day Celebrations on 22 and 23 February 2018. Prof. Dr. V P N Nampoothiri, Emiratus Professor, International School of Photonics, Cochin University of science and Technology



Sir/Madam,

We Department of Physics, Mar Thoma College for Women, Perumbavoor is celebrating National Science day in association with Kerala State Council for Science, Technology & Environment and DST, Govt. of India. As part of this we are organizing an Intercollegiate Presentation Competition on 22 February 2018 at 11.30 am in college conference hall. We invite you to be a part of our venture and make it a successful event.

Thanking you

Dr. Lisy Cherian
Principal

Dr. Anupama P.
HOD, Dept. of Physics

Other Attractions

Science Lecture
Prof. Dr V.P.N. Nampoori
22-02-2018, 10.30-11.30 am

Presentation Competition
22-02-2018
11.30-1.00 pm

Physics in Sports
Dr. Vineed Kumar-K
22-02-2018, 2.00-3.30 pm

Science Exhibition/
Demonstration
23-02-2018, 10.00-3.00 pm

General Instructions

1. Presentation competition will be held for UG and PG students on any relevant topics in General Science.
2. Time for presentation is 10+3 minutes
3. No registration fee.
4. The decision of the judges will be final and binding on all the participants

For more details contact:

Dr. Anupama P.
Mob: 8086790321
Email: anupamapt@gmail.com



മാർത്തോമാ കോളേജിൽ ശാസ്ത്രദിനാഘോഷം



മാർത്തോമാ വനിതാ കോളേജ് ഫിസിക് വിഭാഗത്തിന്റെ ആഭിമുഖ്യത്തിൽ നടത്തിയ ശാസ്ത്രദിനത്തിന്റെ ഉദ്ഘാടനം കുസാറ്റ് റിട്ട. പ്രൊഫസർ ഡോ. വി.പി.എൻ. നമ്പൂതിരി നിർവഹിക്കുന്നു

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ഫിസിക് വിഭാഗത്തിന്റെ ആഭി
മുഖ്യത്തിൽ ശാസ്ത്രദിനാഘോ
ഷം നടത്തി. കെ.എസ്.സി.എ
.ടി.ഇ, ഡി.എസ്.ടി. ഗവ. ഓഫ്

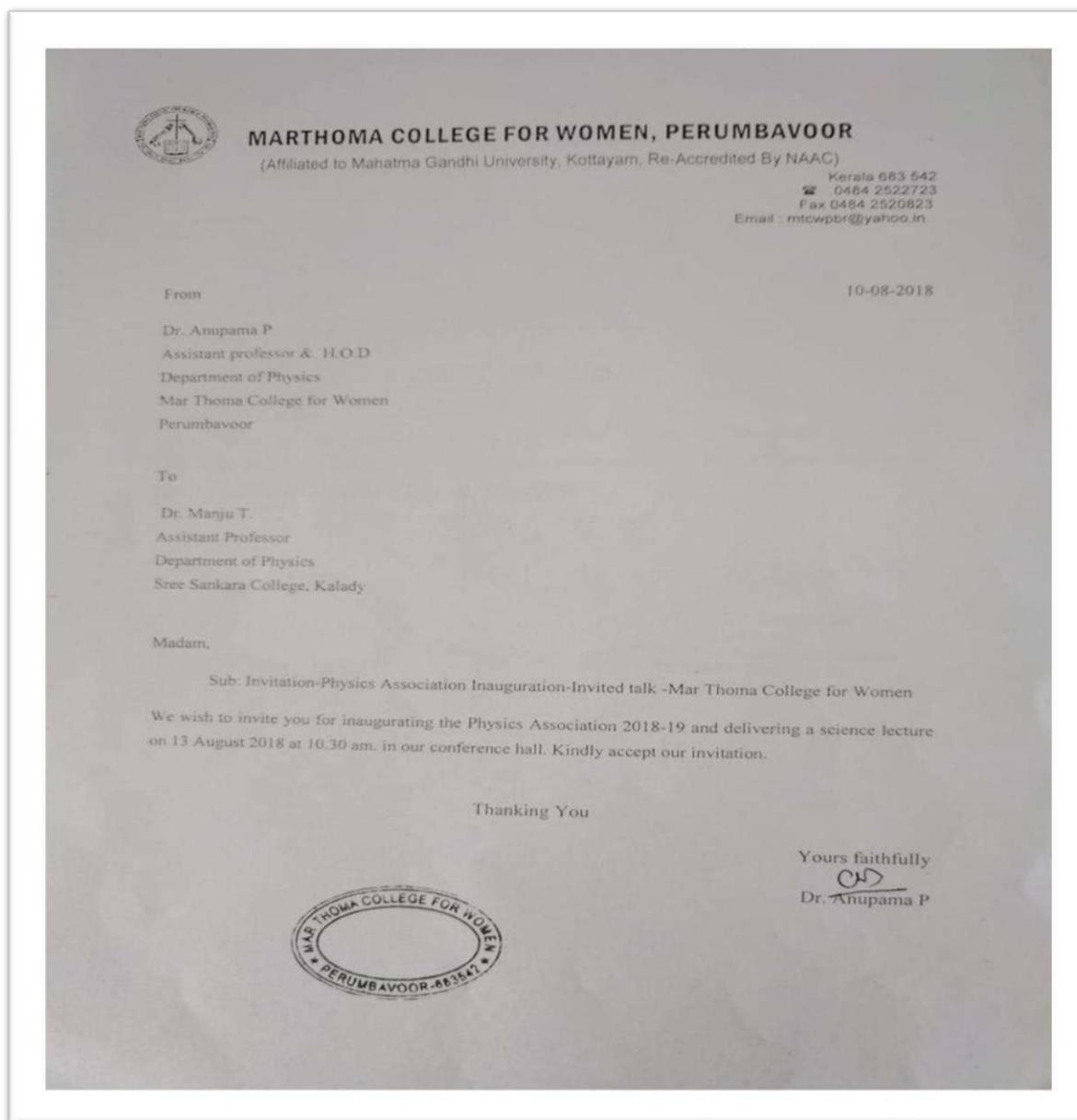
ഇന്ത്യ എന്നിവയുടെ സഹകരണ
ത്തിൽ നടത്തിയ ശാസ്ത്രദിനത്തി
ന്റെ ഉദ്ഘാടനം കുസാറ്റ് റിട്ട.
പ്രൊഫസർ ഡോ. വി.പി.എൻ.
നമ്പൂതിരി നിർവഹിച്ചു.
ചടങ്ങിൽ കോളേജ് പ്രിൻസി

പ്പൽ ഡോ. ലിസി ചെറിയാൻ
വകുപ്പ് മേധാവി ഡോ. പി. അന
പമ, അസിസ്റ്റന്റ് പ്രൊഫസർ
ഡോ. പൗലോസ് തോമസ്, ഡോ
ബിബിൻ കുര്യാക്കോസ് എന്ന
വർ സംസാരിച്ചു.



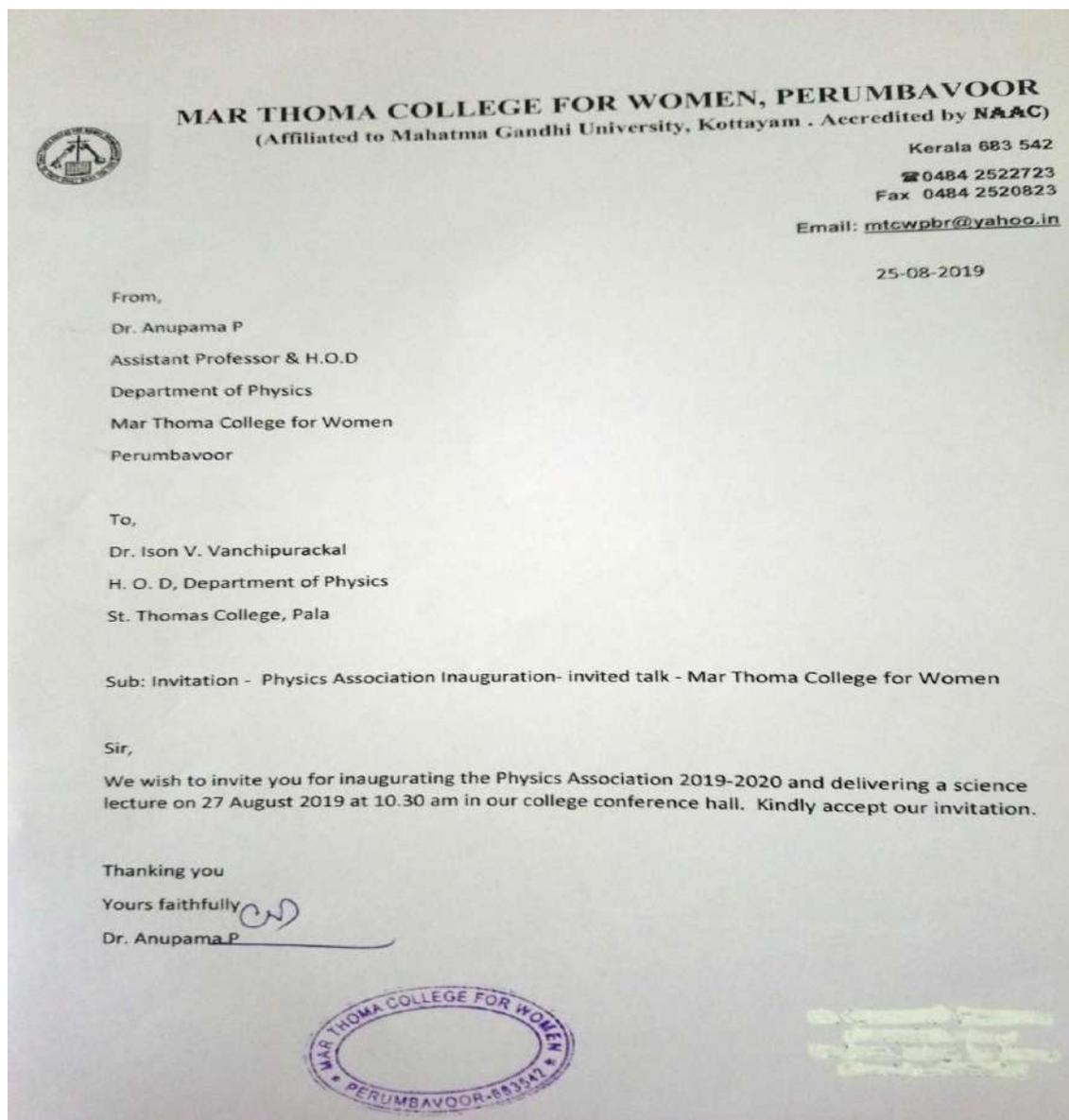
TALK ON “INTRODUCTION TO NANOTECHNOLOGY”

Physics Association Inauguration - talk on introduction to nanotechnology by Dr. Manju.T ,Asst. Professor, Dept. of Physics, Sree Sankara College, Kalady



TALK ON "MATERIAL SCIENCE AND TECHNOLOGY: OPPORTUNITIES AND CHALLENGES"

Physics Association Inauguration - talk on "Material science and technology: opportunities and challenges" by Dr. Ison.V.Vanchipurackal, HOD , Department of Physics, St.Thomas college, Pala.



ASSOCIATION ACTIVITIES



Physics Association was inaugurated by Dr. Ison V Vanchipurackal, HoD, Department of Physics, St Thomas College, Palai on 27 August 2019. He delivered a talk on “Material Science and Engineering: Opportunities and Challenges”.



ENVIRONMENT MANAGEMENT TRAINING, GO GREEN

The greatest threat to our planet is the belief that someone else will save it. It is the need of the hour to think about our habits that harms the earth and time has to take actions that will help to relocate what has been lost. Creating awareness is the first step. As a part of GO GREEN Environment Management Training 2019, organized by Department of physics; Mar Thoma College for women, sponsored by Kerala State Council for Science Technology and Environment (KSCSTE), several sessions were taken on the topic. The Training programme lasted for four days and it was inaugurated by **Prof. Dr. Sabu Thomas, Hon'ble Vice Chancellor of Mahatma Gandhi University, Kottayam on 11 January 2020 at 8.30 am.**



SEMINAR ON LATEST TRENDS IN SOLAR ENERGY TECHNOLOGY



An interactive session on Latest Trends in Solar Technology was led by **Dr. K. Soman, President, Energy Conservation Society, Kerala**, on 11 January 2020. In the seminar organized by Department of Physics The resource person explained about Solar Skin Design, Solar Powered Roads, Wearable Solar, Solar Batteries, Solar Tracking Mounts, and Solar Thermal Fuel (STF). Latest trends in Solar Energy sector were clearly presented to the students.



SEMINAR ON NUCLEAR ENERGY – CLEAN AND GREEN ENERGY



A seminar on Nuclear Energy- Clean and Green Energy was organized by the Department of Physics on 11 January 2020 in the P. G. Seminar Hall. **Dr. A. V Satheesh, Scientific Officer, Kudankulam Nuclear Power Plant, Tamil Nadu,** served as the resource person. He discussed about the misconception that Nuclear Energy is not clean and people often doubt about its safety, but during the session he explained how secure and safe it is as an alternative source of power. India's largest Nuclear Power Plant, situated in Kudankulam is constructed with at most planning ensuring on safety measures. Even the residual hot water is disposed such a way that it does not harm the aquatic organisms moreover they found that a particular breed of fish multiplied in the warm water. He explained the principle of nuclear fission and fusion. More power can be produced with fewer amounts of resources and radiations caused are non-hazardous. He also emphasized on the need to switch into a clean and green source of energy like nuclear energy.



SEMINAR ON WASTE HEAT RECOVERY-OVERVIEW OF GLOBAL WARMING

A seminar on Waste Heat Recovery and Global Warming was organized by Department of Physics on 11 January 2020. **Mr. Baby Kuriakose, Director of Energy and Engineering Enterprise and Secretary, Energy Conservation Society, Kerala** served as the resource person. The session started around 1:30 P.M. and he talked about the recovery of the waste that we considered to be of no use and harmful to environment. He explained about reducing carbon emissions and reusing the residual heat to significant cost saving for producers and users. Typical uses for recovered heat include Space Heating, Drying and Pre heating Fuel, Water Heating etc. He also discussed the legal policies and guidelines to protect the environment which is already included in M.G. University BSc Physics 5th semester paper titled, Environmental Physics and Human Rights. Hence the talk was really informative.





SEMINAR ON WASTE CLASSIFICATION- HOW TO IMPLEMENT?

A seminar on Waste Classification-How to Implement it was organized on 11 January 2020 by Department of Physics. **Mr. Santhosh A. Managing Director, Athul Energy Consultants Pvt. Ltd.** took the session Our waste is our responsibility. He effectively took class on management and disposal of waste and what we can do attain a clean and green environment. He spoke about the 3 R's - Reuse, Reduce, Recycle and also introduced the importance of 4th R – Refuse. He encouraged us to use jute and paper bags and also to refuse taking plastic bags in domestic activities.





STUDENT SOLAR AMBASSADOR PROGRAM

“Student Solar Ambassador Workshop” has been organized by the department in association with **IIT, Mumbai** and **Energy Conservation Society** as part of **Gandhi global yathra**. Training on Solar lamp assembling has been given to all the students of our department. As a part of this training on solar lamp assembling has been given to students of Asramam Higher Secondary School, Perumbavoor, Kallil Government Higher Secondary School, Perumbavoor and Government Boys Higher Secondary School, Perumbavoor.







OATH TAKING- ENVIRONMENT DAY

As part of the Environment Day observance, the students and teachers of the department of Zoology took an oath on 20 June 2019 to safeguard the biodiversity of our land. Instead of planting saplings the department made a decision to take good care of the trees and plants they had already planted. The students took oath as a conservationist and pledged to take all efforts to conserve the environment.





**MAR THOMA COLLEGE FOR WOMEN,
PERUMBAVOOR**



DEPARTMENT OF ZOOLOGY

Organize

Environment Day Observance 2019



OATH TAKING

- ✕ I, a student of Biology hereby, take Oath as a Conservationist.
- ✕ I pledge to plant trees and to take care of the ones already planted.
- ✕ I will try my best to conserve the natural habitats of our regional flora and fauna.
- ✕ I will not waste the natural resources like water, petrol, electricity, etc .
- ✕ I will not burn plastic. I will promote environment friendly practises.

DATE: 20/06/2019

TIME: 9.30 A.M

VENUE: ROOM 210

**Ms. Sharon Thomas
Student Coordinator**

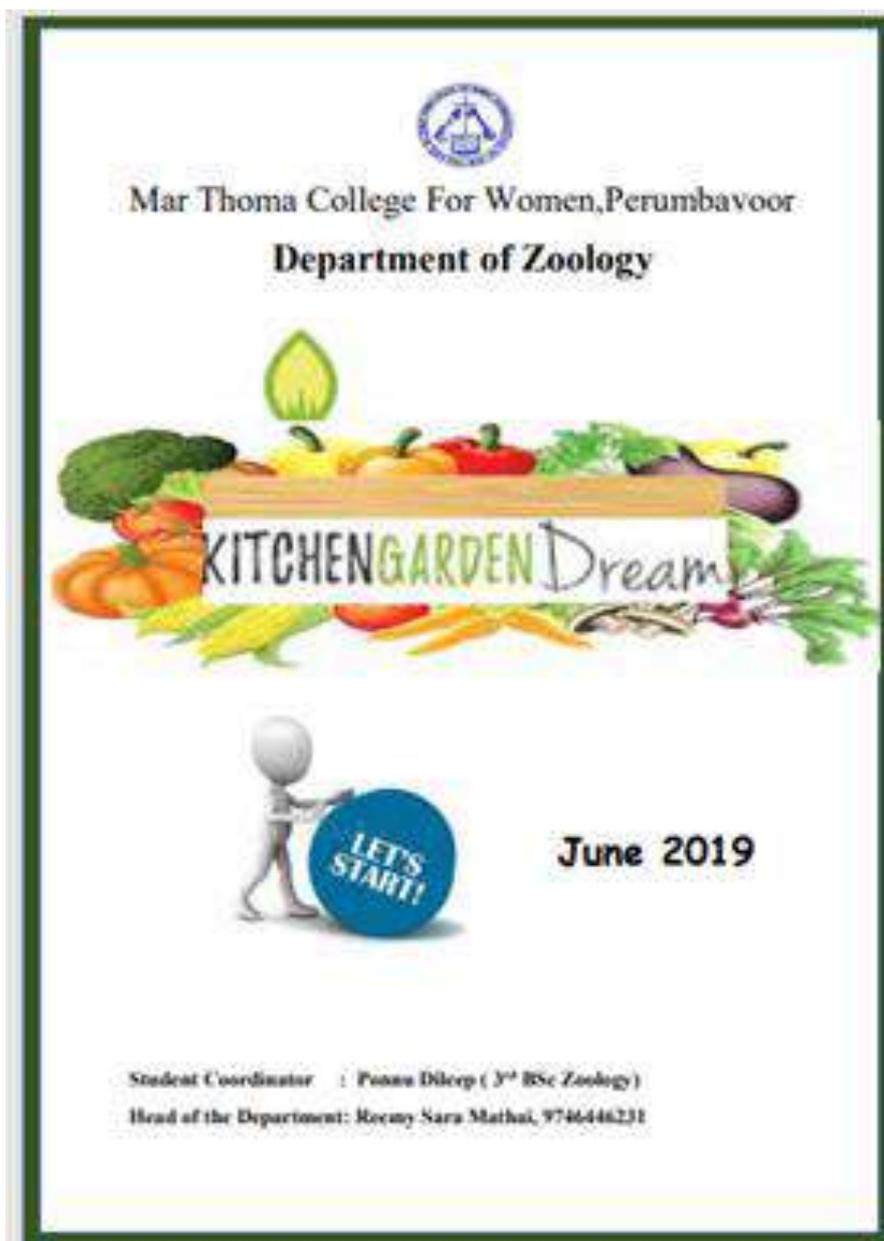
**Ms. Reemy Sara Mathai
Head of the Department**

**Dr. Gigi George
Principal**



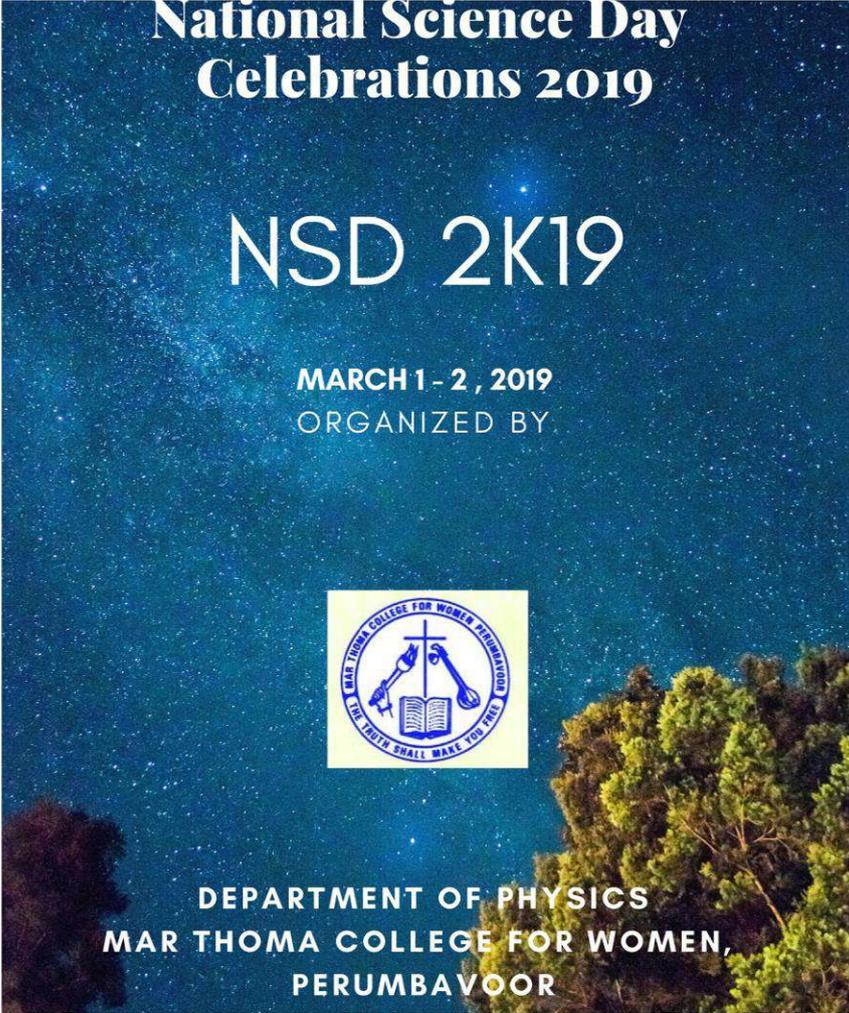
KITCHEN GARDEN DREAM REALITY PROJECT

The department of Zoology launched the "Kitchen Garden Dream" on 28 June 2019. Students were motivated to start kitchen garden in their homes thereby increasing self-sustainability. 37 students of the UG program committed to starting one at home. By the month of October, the dream became a reality.





NATIONAL SCIENCE DAY CELEBRATIONS 2019



**National Science Day
Celebrations 2019**

NSD 2K19

MARCH 1 - 2, 2019
ORGANIZED BY



DEPARTMENT OF PHYSICS
MAR THOMA COLLEGE FOR WOMEN,
PERUMBAYOOR

SUPPORTED BY  **ACADEMY OF
PHYSICS
TEACHERS KERALA**



Venue : Conference Hall

Date : March 1-2 , 2019

01-03-2019

Morning Session

10 am : Inauguration

10:30 am : Talk by Dr. Lisy Cherian

Principal,

Marthoma College for Women

Perumbavoor

11: 00 am : Poster Designing Competition

Evening Session

Sky Watch Programme

Resource Person Dr. Shaji. N

Former Principal

T. M. Jacob Memorial College

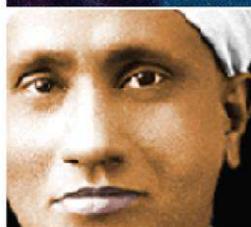
Manimalakkunnu

6: 00 pm to 8:00 pm : Sky Watch Programme

02- 03 -2019

Morning Session

4:00 am to 6:00 am : Sky Watch Programme



"I am the master of my failure... If I never fail how will I ever learn."



General Rules

- Topic : Science in daily life
- Time : 2 hours
- Participants should bring the necessary materials needed for poster designing.
- First Prize : 750
- Second Prize : 500

ORGANIZING COMMITTEE

DR. ANUPAMA P (HOD)
DR . PAULOSE THOMAS
DR . RAJANI JACOB
DR. MELVI CHANDY
MS ATHIRA P



Dear Sir/Madam

Department of Physics, Marthoma College for Women is organizing a poster competition and Sky Watch Programme in association with Academy of Physics Teachers as part of National Science Day 2019 on 01 and 02 March 2019.

We invite you to be a part of our venture and make it a successful event.

**DR ANUPAMA P
HOD**

**DR LISY CHERIAN
PRINCIPAL**





SKY WATCH PROGRAMME

Date and Time

01 MARCH 2019 06:00 PM TO 08:00 PM
02 MARCH 2019 4:00AM TO 06:00AM

Resource person

Dr. N Shaji

Principal

T. M Jacob Memorial Govt. College
Manimalakkunnu

**VENUE : COLLEGE GROUND
MARTHOMA COLLEGE FOR WOMEN
PERUMBAVOOR**

**ORGANIZED BY
DEPARTMENT OF PHYSICS
MARTHOMA COLLEGE FOR WOMEN
PERUMBAVOOR**

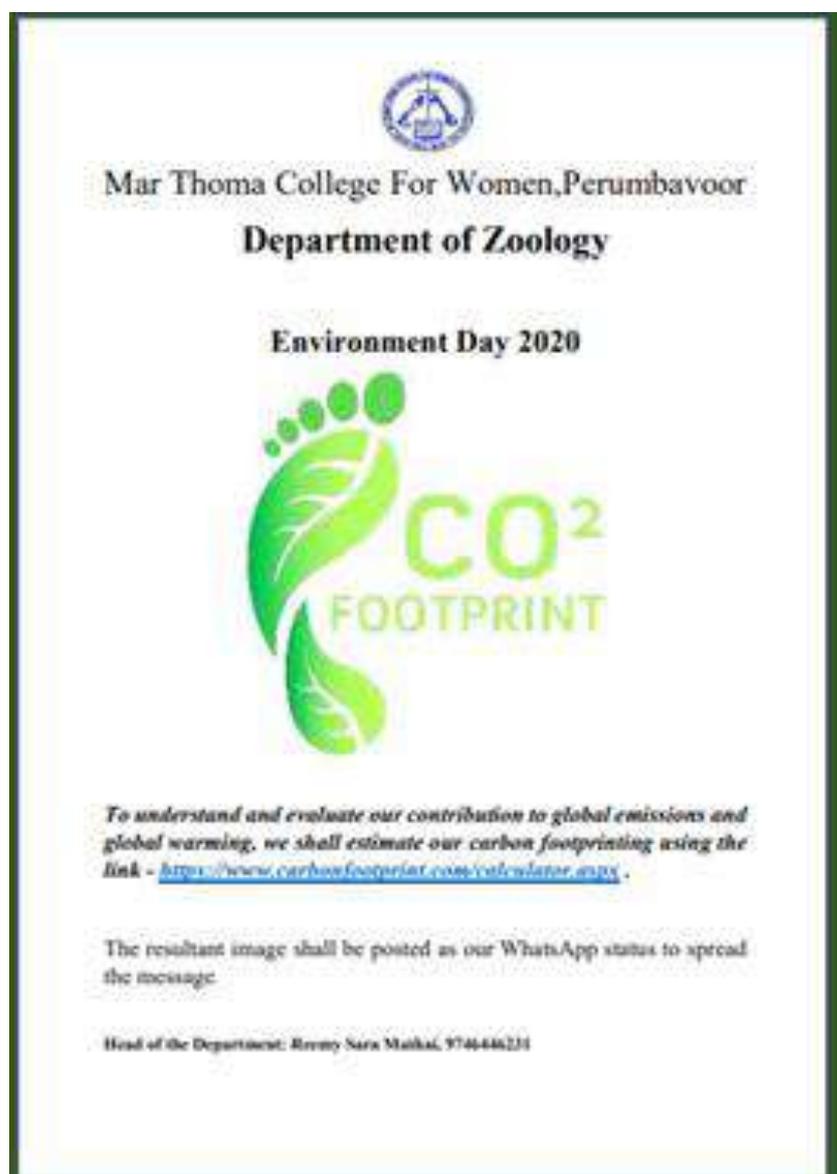




CARBON FOOT PRINTING

Carbon foot printing in connection with
World Environment Day Observance

Amidst Covid 19, keeping away from the regular practice of cleaning and planting, we (36 students and 2 teachers) did carbon foot printing. It was posted in social media groups on June 5th. Now what is carbon foot printing? It is the amount of carbon dioxide released into the atmosphere as a result of the activities of a particular individual, organization, or community. We just tried to understand our contribution to global warming.





NATIONAL ENERGY CONSERVATION DAY CELEBRATIONS

In association with Energy management centre, kerala and PCRA Chapter two webinars were organized on the topics- Talk on Energy efficiency in domestic sectors by Mr. Ijas M. A, Energy Technologist EMC,Kerala , Lessons of sustainability from pandemic era by Mr. Suresh Kumar .M ., Additional director , PCRA and importance of electrical safety by Dr. F.R.Pazheri , Assistant electrical inspector , Electrical inspectorate , Malappuram respectively.

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR
KERALA - 683542

ENERGY CONSERVATION DAY CELEBRATIONS 2020

Organized by
Department of Physics

In association with  ENERGY MANAGEMENT CENTRE KERALA

Webinar 1

Energy efficiency in domestic sectors

 Resource Person
Mr. Ijas M A
Energy Technologist,
Energy Management Center
(EMC), Kerala.

Date- 3-12-2020
Time- 1:30 pm
Platform- Google Meet

Convenors Dr. Anupama P (HoD)
Dr. Melvi Chandy (Association-in-charge)



LESSONS OF SUSTAINABILITY FROM PANDEMIC ERA



MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR
KERALA - 683542

ENERGY CONSERVATION DAY CELEBRATIONS 2020

Organized by
Department of Physics

In association with  **PCRA**

Webinar 4

Lessons of Sustainability from Pandemic Era



Resource Person
Suresh Kumar M
Additional Director
Petroleum Conservation Research
Association(PCRA), Kochi.
Ministry of Petroleum and Natural Gas
Govt. of India.

Date- 14-12-2020
Time- 1:30 pm
Platform- Google Meet

Convenors
Dr. Anupama P (HoD)
Dr. Melvi Chandy (Association-in-charge)



IMPORTANCE OF ELECTRICAL SAFETY

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR
KERALA - 683542

ENERGY CONSERVATION DAY CELEBRATIONS 2020

Organized by
Department of Physics

Webinar 3

Importance of Electrical Safety



Resource Person
Dr. F. R. Pazheri
Assistant Electrical Inspector
Electrical Inspectorate,
Malappuram

Date- 11-12-2020
Time- 2:30 pm
Platform- Google Meet

Convenors
Dr. Anupama P (HoD)
Dr. Melvi Chandy (Association-in-charge)



TALK ON “INTRODUCTION TO REACTOR PHYSICS”

The activities of the physics association was inaugurated by Dr. Neethu Hanna Stephen, Scientific officer E,IGCAR,Kalpakkam. She delivered a talk on “introduction to Reactor Physics”. With the whole hearted support of the head of the department and other teachers of the department.


MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR
 KERALA - 683542

DEPARTMENT OF PHYSICS
ASSOCIATION INAUGURATION, 2020-21
& TALK ON
 Introduction to Reactor Physics


 Chief Guest & resource person
Dr. Neethu Hanna Stephen
 Scientific Officer E, IGCAR, Kalpakkam

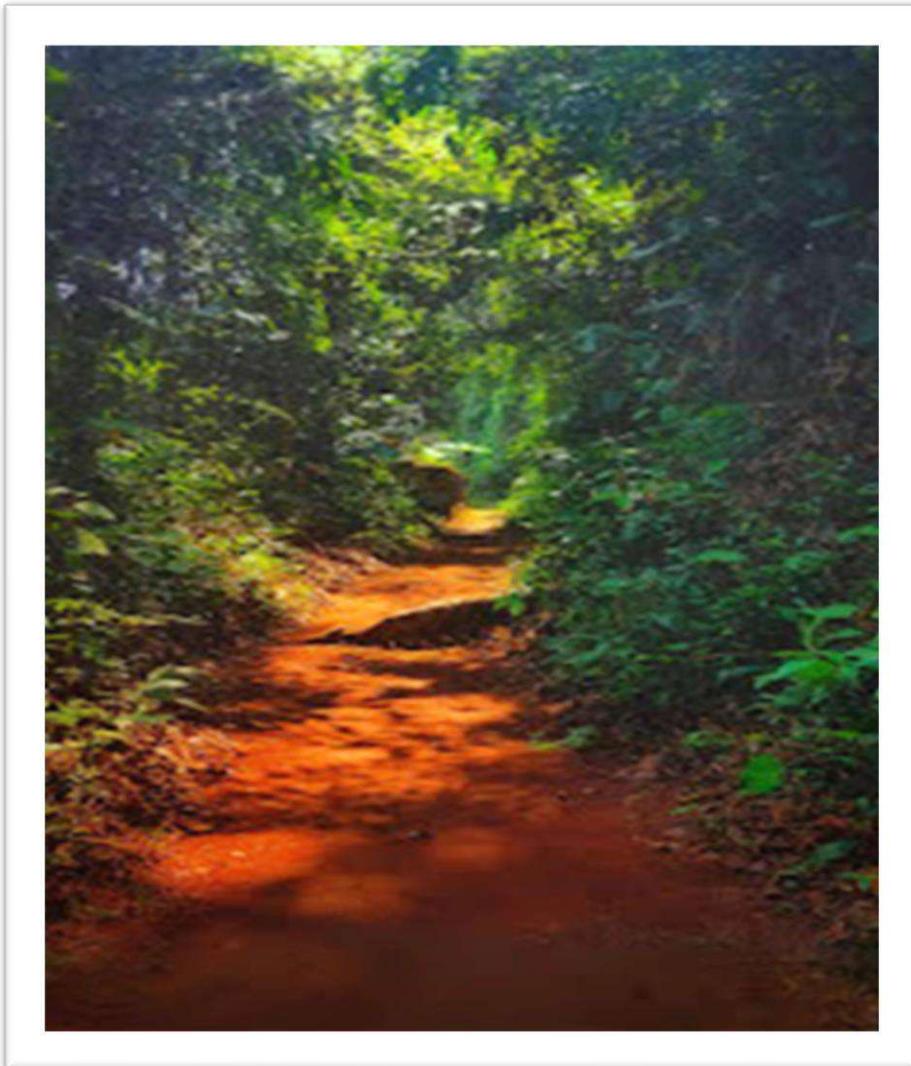
Date- 5-12-2020
Time- 10:00 am
Platform: Google Meet

Convenors
 Dr. Anupama P (HoD)
 Dr. Melvi Chandy (Association-in-charge)
 Akina K Sudheesh (Association Secretary)



ECO SYSTEM WALK

The department of Zoology organized a curriculum enhancement ecosystem walk to the Iringole Sacred groove on the 27th of March 2021. The final year degree students who were taken for the program could visualize the floral and faunal diversity of the preserved area in our vicinity. Butterfly, earthworms, dragonflies of different forms and colours were seen. the tree boring arthropods also caught our attention. we did spot a few rare colourful spiders in our trip. The faculty coordinator was Mrs. Reemy Sara Mathai.





ENVIRONMENT DAY CELEBRATION

In connection with the Environment Day observance, the department of Zoology collaborated with the Newman college and organized a week-long program. The intercollegiate essay contest, elocution contest, quiz competition and the campaign wherein we had 7, 5, 12, 20 and 56 participants respectively.





Newman College Thodupuzha
Dept. Of Zoology
 In Collaboration with
Marthoma College For Women Perumbavoor
 Celebrates,
"ENVIRONMENT DAY 2021"
 With a series of interesting events through
 online mode due to Covid-19 pandemic.

**ELOCUTION
 COMPETITION**

Topic :- 'Go Green ; To Get Globe Clean'

 **WIN PRIZES,**
 1st Prize :- 500/-
 2nd Prize :- 250/-

Please send the entries to,
zoology@newmaxcollege.ac.in
 * whatsapp :- 9446373858

Last Date For Submission :- 05/06/2020 . Before 3 pm



VIDHYAVANAM PROJECT

The department of Zoology in collaboration with the social forestry wing of the Kerala Forests and Wildlife department launched a “Vidyavanam” in the College for the benefit of students. The program was inaugurated by the Municipal Chairman Mr. Zakir Hissain, in the presence of the DFO, Ernakulam, Ward Councillor and Principal on July 1, 2021

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

വിദ്യാവനം 2021-22

An initiative of
His Lordship Rt. Rev. Dr. Euryakim Mar Coorilos Episcopa
 (Manager, Mar Thoma College for Women, Perumbavoor)

in collaboration with
 The Social Forestry Wing, Perumbavoor Range,
 Kerala Forests & Wildlife Department, Government of Kerala.

will be inaugurated by
Mr. T.M. Zakkir Hussain, Chairperson, Perumbavoor Municipality
 on 1 July 2021 at 3 p.m. in the College Campus.

We expect your prayers, Blessings and cooperation in this venture.

Ms. Reemey Sara Mathai
 HoD, Department of Zoology

Dr. Sijo Mary Varghese
 Principal





ENVIRONMENT CONSCIOUSNESS

As a part of creating environmental consciousness, the department of Zoology, handed over a box of 250 seeded paper pens to the Principal Dr. Sujo Mary Varghese on 9 July 2021 at 1pm. As the pens were bought from a physically challenged Invidia who makes his livelihood from the sale of these pens, this responsible act of love by the department of Zoology served 2 purposes-

1. An add-on to the green campus initiative of the College.
2. An act of service to the needy

Outcome: This act has reduced the usage and disposal of plastic pens in the office and departments and thereby helped to adhere to the green campus initiative of the college





*Environmentally conscious social responsibility -
Department of Zoology*



*An act of love to conserve the
environment*



WEBINAR ON MANGROVE CONSERVATION

A state funded webinar on Mangrove conservation was organized by the department of Zoology in collaboration with the social forestry wing of the Kerala Forests and Wildlife. on Oct 3, 2021 at 10am via Google meet. Dr. Jain Therattil served as the resource person.

The poster is for a webinar titled "Faunal World of Mangrove Ecosystem - Its Conservation". It is organized by the Department of Zoology at Mar Thoma College for Women, Perumbavoor, in collaboration with the Social Forestry Division of the Kerala Forests and Wildlife Department. The webinar is part of the Wildlife Week Celebrations 2021. The resource person is Dr. Jain J. Therattil, Assistant Professor at the Department of Zoology, St. Alexys College. The inauguration is by Mr. A. Jayaramkuttan, Assistant Conservator of Forests, Social Forestry Division, Perumbavoor. The webinar is scheduled for October 5, 2021, from 10-11:30am on the Googlemeet platform. The poster features two stylized trees with colorful leaves and a small animal silhouette at the bottom.

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR
DEPARTMENT OF ZOOLOGY
In collaboration with

SOCIAL FORESTRY DIVISION
KERALA FORESTS AND WILDLIFE DEPARTMENT

Wildlife Week Celebrations 2021
Enrichment Zone

Resource Person

Dr. Jain J. Therattil
Assistant Professor
Department of Zoology
St. Alexys College

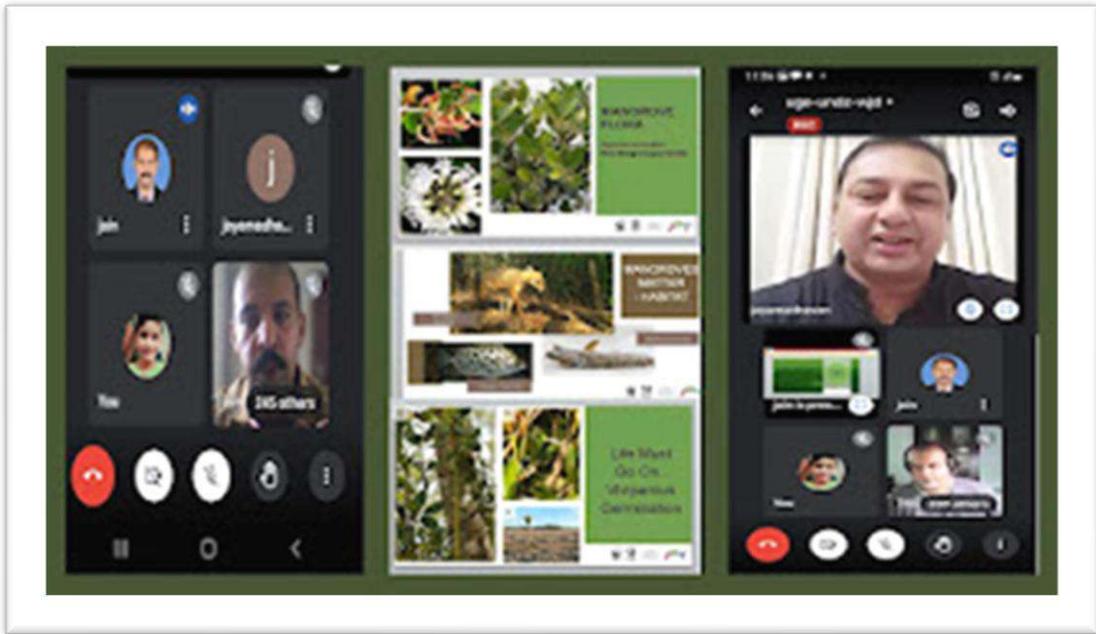
Inauguration

Mr. A. Jayaramkuttan
Assistant Conservator of Forests
Social Forestry Division
Perumbavoor

Webinar on
Faunal World of Mangrove Ecosystem - Its Conservation

Date : October 5, 2021
Time : 10-11.30am
Platform: Googlemeet





WEBINAR ON BIRD CONSERVATION

The of Zoology in collaboration with the social forestry wing on Oct 5, 2021 at 6pm. Dr.Dileepkumar served as the resource person.

MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR
COLLEGE UNION AND DEPARTMENT OF ZOOLOGY
In collaboration with

SOCIAL FORESTRY DIVISION
KERALA FORESTS AND WILDLIFE DEPARTMENT

Earth's Music for Us
A Webinar on
Bird Conservation

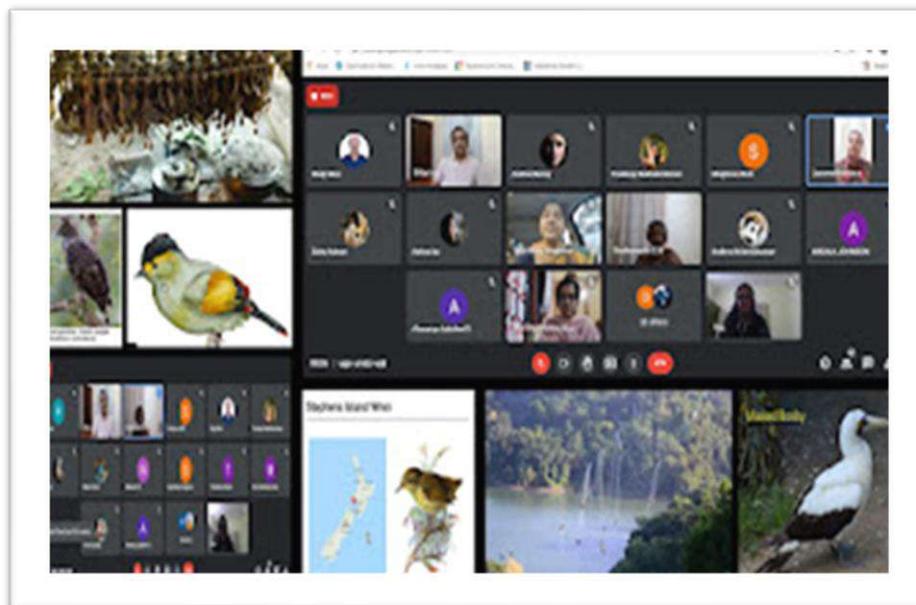
Oct 5, 2021 6 PM

<https://meet.google.com/age-undt-wjfd>

Dr. Dileep K.G.
Retired Professor
Department of Sociology,
San Jacobson's University, Kerala
CHS Netherland

Ms. Mary Mathew
Programme
Coordinator

Mr. A. Jayaraman IAS
Mr. Chathura (U.A.) Chandran (I.A.S.)
Chief Officer



INVITED LECTURE ON “INTRODUCTION TO ENVIRONMENTAL HUMANITIES”

A seminar on the topic, “Introduction to Environmental Humanities” was organized by the English Association in association with IQAC on 14 December 2021. The resource person for the day was Dr Raghul V Rajan, Assistant Professor, Aligarh Muslim University, Malappuram Centre. The presidential address to the programme was given by the principal.

Environmental Humanities is a multidisciplinary field where we study the History, Literature, Philosophy, and Anthropology of environmental problems, such as climate change. Environmental humanities employ humanistic questions about meaning, culture, values, ethics, and responsibilities to address pressing environmental problems. The environmental humanities aim to help bridge traditional divides between the sciences and the humanities, as well as between Western, Eastern, and Indigenous ways of relating to the natural world and the place of humans within it. The field also resists the traditional divide between “nature” and “culture,” showing how many “environmental” issues have always been entangled in human questions of justice, labour, and politics. Environmental humanities are also a way of synthesizing methods from different fields to create new ways of thinking through environmental problems. Environmental humanities did not just emerge from Western academic thinkers: indigenous, postcolonial, and feminist thinkers have provided major contributions. These contributions include challenging the human-centred viewpoints that separate “nature” and “culture”



and the white, male, European- and North American-centric viewpoints of what constitutes “nature”; revising the literary genre of “nature writing”; and creating new concepts and fields that bridge the academic and the political, such as “Environmental justice,” “environmental racism,” “the environmentalism of the poor,” "nature cultures," and "the post human."

The lecture helped the students to realise the importance of preserving our environment and also about how they can make use of the environmental resources available to achieve their true potential. A total number of 56 participants participated in the lecture. The vote of thanks for the programme was delivered by the association secretary.





**MAR THOMA COLLEGE FOR
WOMEN PERUMBAVOOR**

English Association presents

Introduction to Environmental Humanities

**14th December 2021
Time : 02.30 PM**



NATIONAL SCIENCE DAY CELEBRATION

We celebrated National Science Day 2021 by organizing activities like competitions and webinar with the support of Academy of Physics Teachers (APT), Kerala. A webinar was organized on the topic “Why Science is important to us Humans?” by Dr. Joe Jacob, Associate professor, Dept. of physics, Newmann college Thodupuzha

MAR THOMA COLLEGE FOR WOMEN,
PERUMBAYOOR, KERALA - 683542

**NATIONAL SCIENCE DAY
CELEBRATION 2021**

Organized by:
Department of Physics

is association with  **ACADEMY OF
PHYSICS
TEACHERS KERALA**



 Webinar
“Why Science is
important
to us humans?”

Resource Person
Dr. JOE JACOB
Associate Professor, Dept. of Physics
Newman College, Thodupuzha
(Visiting Associate, IUCAA, Pune)

 **Google Meet:**
26th February, 2021
11:00 AM

Dr. Anupama P
(Head of the Department)

Dr. Melvi Chandy
(Teacher-in-charge)

Ms. Akina K Sudheesh
(Association Secretary)



**MODEL MAKING / WORKING
MODEL COMPETITION**

General Rules

1. Open to all U G students.
2. Each team can contain a maximum of three members.
3. An innovative and inexpensive design / technique.
4. Application of basic principles of science / technology.
5. The geotagged video of the working model can be send to physicsmarthoma@gmail.com before 28/02/2021.

**Quiz Competition on
"Physics in Daily Life"**

1. Quiz competition will be open to all U G students.
2. Date : 28/02/2021
Time : 10:00 am
Duration: 30 minutes
3. For registration
<https://forms.gle/jUKvt43YA7ZvbKqEQ8>

*Cash prize and E- certificate will be given to top placed entries
in each category*

For more details contact : 9746693701



EXPERT TALK ON “INNOVATIONS IN SOLAR POWER”

Expert talk was arranged in association with Institution’s Innovation Council, on ‘Innovations in Solar Power-Sun Powers Cochin Airport’ by Mr. Rajumon P.C., DGM, Cochin International Airport Ltd.





MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR



INSTITUTION'S INNOVATION COUNCIL(IIC),

INNOVATION & ENTREPRENEURSHIP DEVELOPMENT CENTRE (IEDC)

&

DEPARTMENT OF PHYSICS

Jointly organise

An Invited Talk

'INNOVATIONS IN SOLAR POWER:- SUN POWERS COCHIN AIRPORT"

Resource Person : Mr. RAJUMON P.C
Deputy General Manager
Electrical Engineering Dept.,CIAL



Venue: P.G SEMINAR HALL

Date: 12/01/2022
Time: 10:30 am

Student coordinators:
Niranjana B Na
Revathi Rajeev
Alena Paul



WORKSHOP ON LED STAR MAKING

As a continuation of previous years, in 2021 too, the students of our department made LED stars during the months of November and December and put for sale. Ad. EldhoseKunnappilly,MLA inaugurated the sale





Mar Thoma College for Women
Perumbavoor

Department of Physics



Save and Shine



*Oh, I wish I were a sparkling Christmas star.
Oh, I wish I were a sparkling Christmas star.
Then my light would shine it's true
To guide Santa straight to you.
Oh, I wish I were a sparkling Christmas star.*



LED Star making workshop



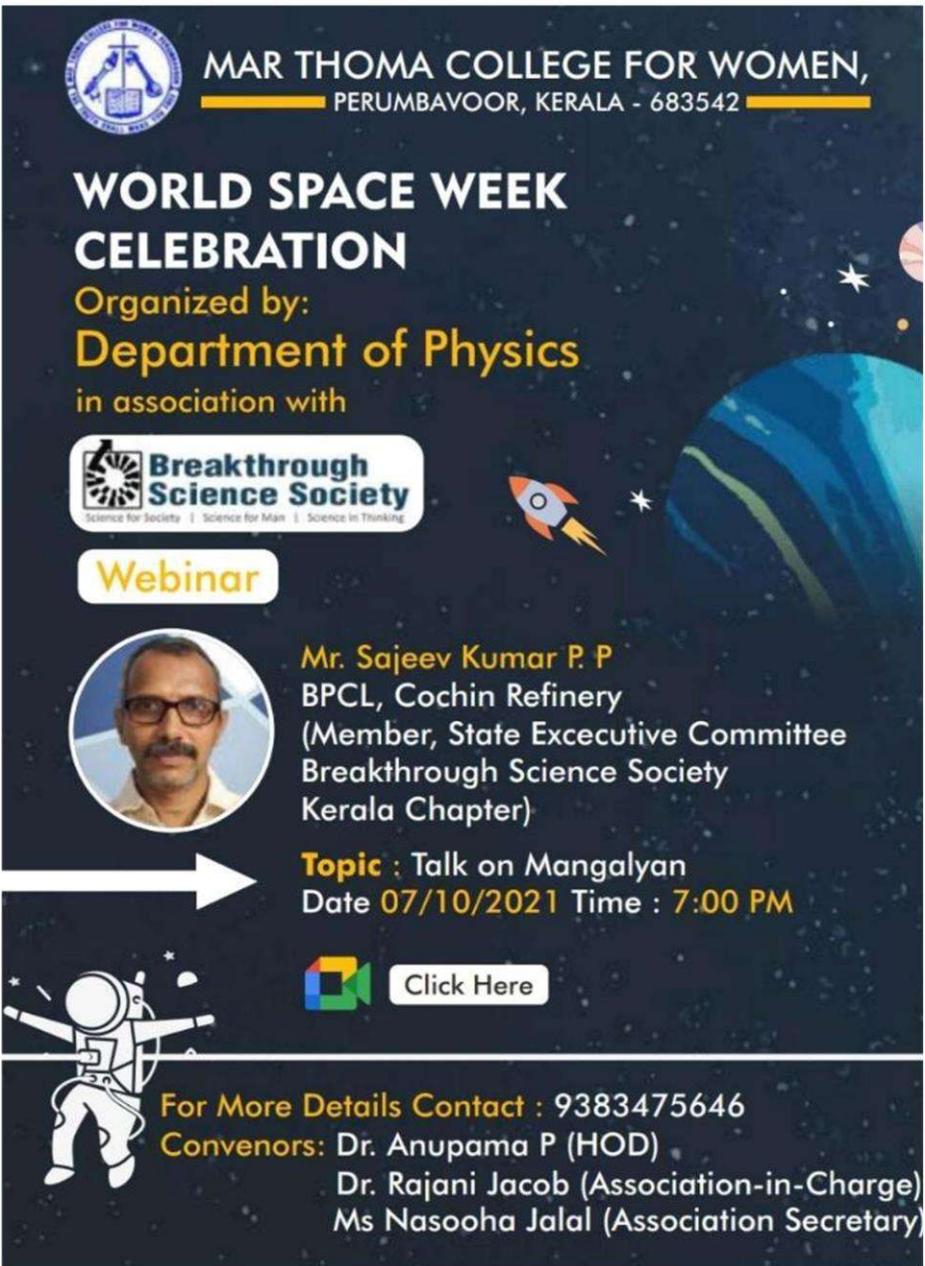
To get your Stars

Aiswarya Ramesh

8547054989



WORLD SPACE WEEK CELEBRATION



 **MAR THOMA COLLEGE FOR WOMEN,**
PERUMBAVOOR, KERALA - 683542

**WORLD SPACE WEEK
CELEBRATION**

Organized by:
Department of Physics
in association with

 **Breakthrough
Science Society**
Science for Society | Science for Man | Science in Thinking

Webinar

 **Mr. Sajeev Kumar P. P**
BPCL, Cochin Refinery
(Member, State Executive Committee
Breakthrough Science Society
Kerala Chapter)

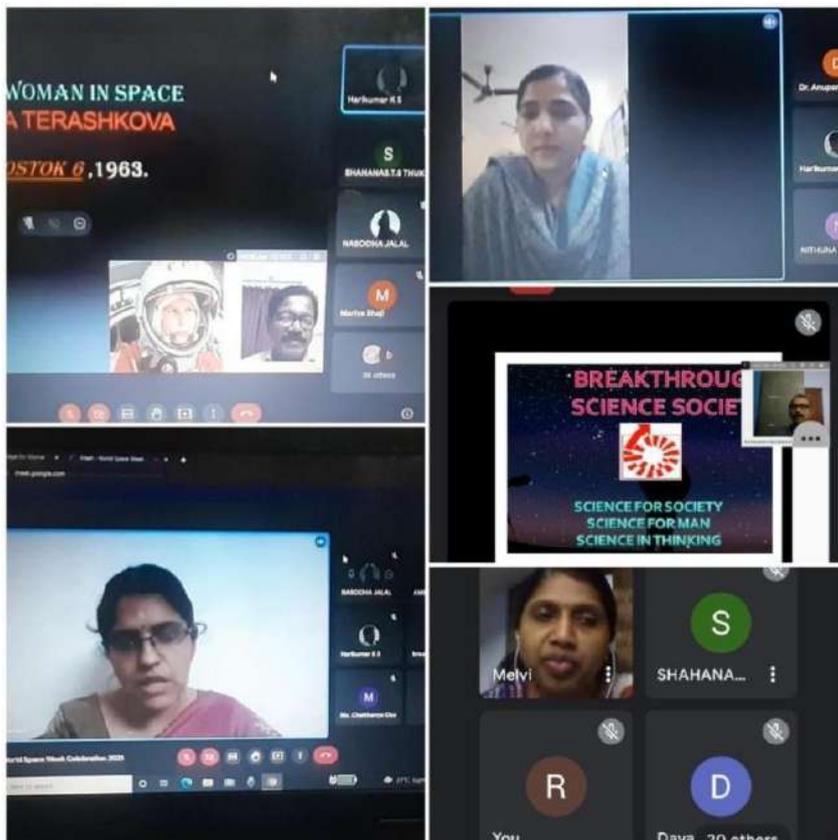
Topic : Talk on Mangalyan
Date 07/10/2021 **Time :** 7:00 PM

 [Click Here](#)

 **For More Details Contact :** 9383475646
Convenors: Dr. Anupama P (HOD)
Dr. Rajani Jacob (Association-in-Charge)
Ms Nasooha Jalal (Association Secretary)

In association with Breakthrough Science Society, Ernakulam Chapter two webinars were organized on the topics- Talk on Mangalyan and History of Space Mission by Mr. Sajeev Kumar P.P, BPCL, Cochin Refinery and Mr. Harikumar K.S., Dy. Manager (Fire and Safety), FACT(Rtd) respectively. An online space quiz was also conducted.





 **MAR THOMA COLLEGE FOR WOMEN,**
PERUMBAVOOR, KERALA - 683542

WORLD SPACE WEEK CELEBRATION

Organized by:
Department of Physics
in association with

 **Breakthrough Science Society**
Science for Society | Science for Man | Science in Thinking

Webinar

 **Mr. Harikumar K S**
Dy Manager(Fire and safety), FACT(Retd)
(Member, State Executive Committee
Breakthrough Science Society
Kerala Chapter)

Topic : History of Space Mission
Date 06/10/2021 **Time** 7:00 PM

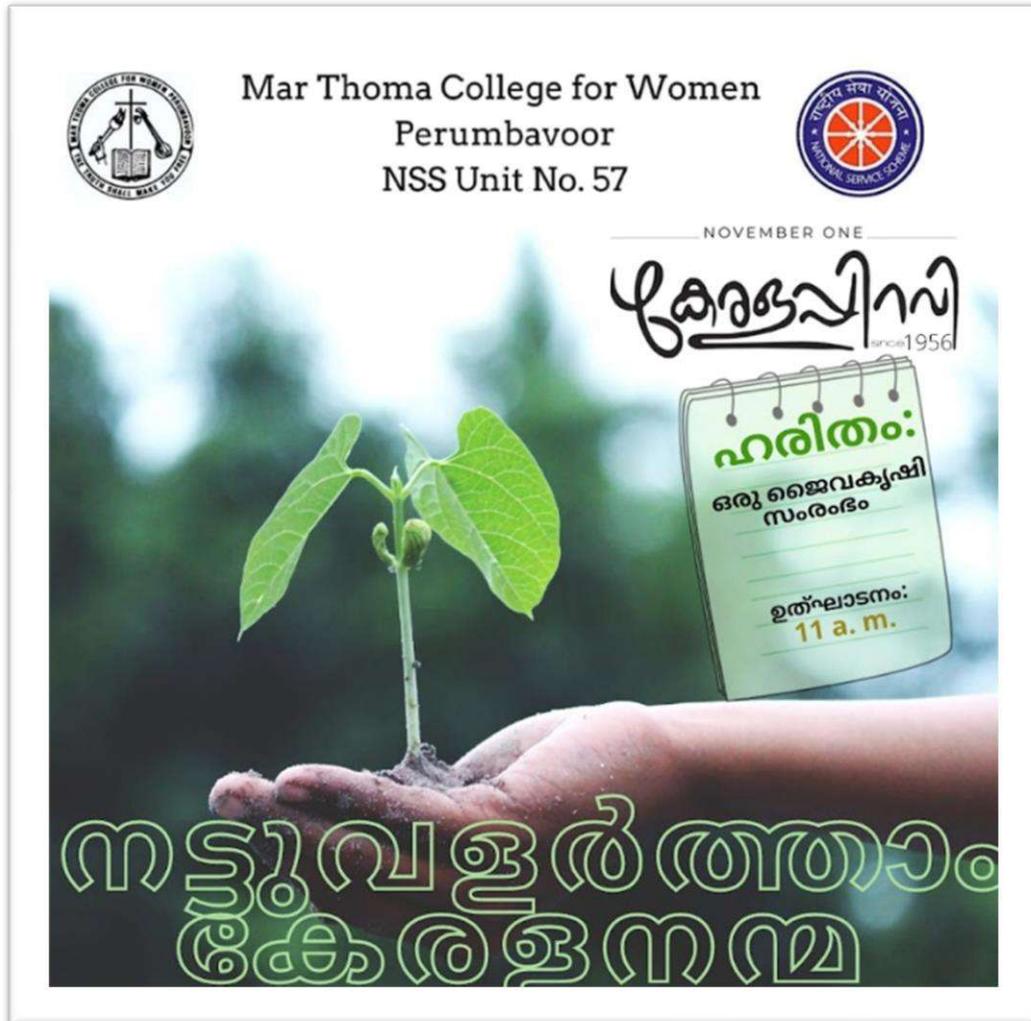
 [Click Here](#)

 **For More Details Contact : 9383475646**
Convenors: Dr. Anupama P (HOD)
Dr. Rajani Jacob (Association-in-Charge)
Ms Nasooha Jalal (Association Secretary)



HARITHAM – ORGANIC FARMING

Organic Farming was initiated in the college campus under the title "Haritham" on 1 November 2021, Kerala Piravi Day.





KAIKOTT - CAMP

The annual seven-day NSS special camp 'Kaikkott 2020' was held from 23 to 30 December 2021. Waste Management was taken as the project for this year's camp. Activities including waste audit, training on compost making, paper pen making, recycling waste materials to usable products, campus cleaning and organic farming were done as part of the camp. Sessions were held on women safety, drug abuse, post covid diet, compost making, etc.

മാർത്തോമ്മാ കോളേജ് ഹോർ വിമൻ
പെരുമ്പാവൂർ

നാഷണൽ സർവീസ് സ്കീം
യൂണിറ്റ് നമ്പർ 57

23 - 29 ഡിസംബർ 2021

സപ്തദിന ക്യാമ്പ്

ഗൈക്കോട്ട്
"ഇപ്പോൾ ശുദ്ധി രാജം"

മാലിന്യ സംസ്കരണം: പാഴ്വസ്തുക്കൾ ഇനി പാല്ലല്ല!



SCIENCE EXHIBITION

We celebrated National Science Day 2022 by organizing activities like competition and presentation with the support of Academy of Physics Teachers (APT), Kerala. We conducted an intercollegiate power point presentation competition on 'Integrated Approach in Science and Technology for Sustainable Future'.

An interdepartmental power point presentation has been arranged in the college on 28 February 2022. Groups consisting of 5 students, from the four science departments of our college- Mathematics, Physics, Zoology and Chemistry, presented relevant topics including the details of contribution of scientists in the field of fundamental discoveries. The topics of presentation were Beauty of nature in the language of Mathematics, Great Indian Physicists, Eminent Scientists who unveiled the science of Life and Green Chemistry.

