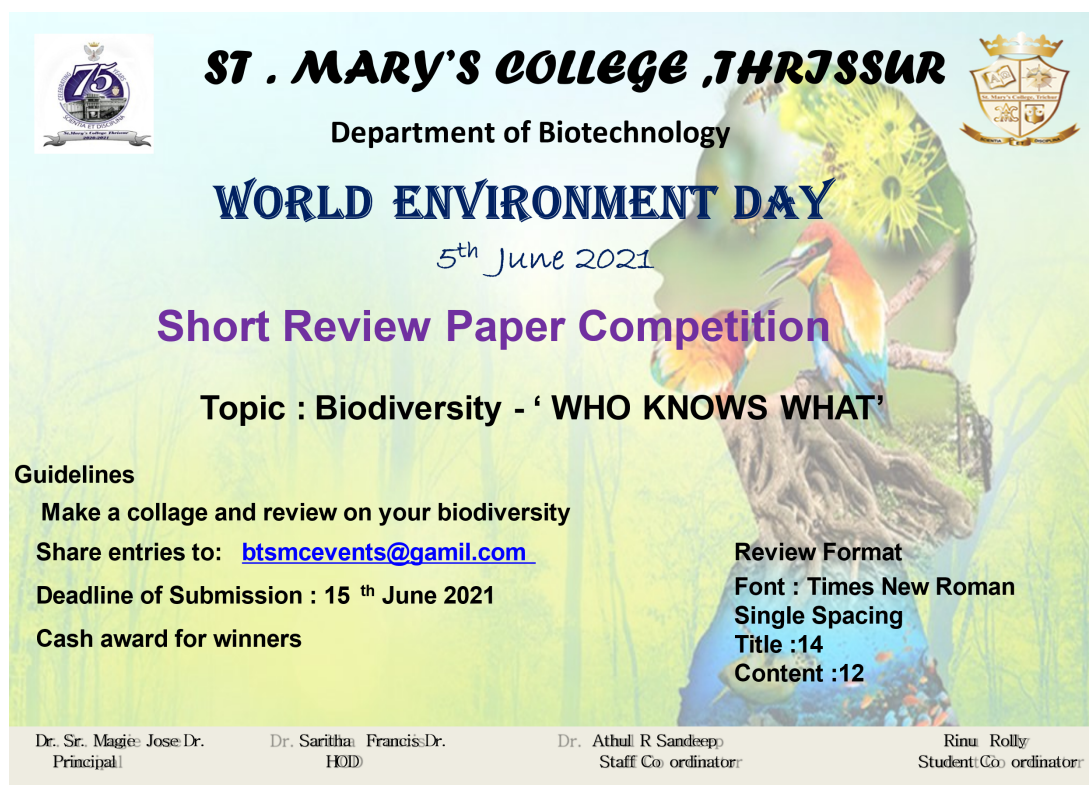


DEPARTMENT OF BIOTECHNOLOGY

ACTIVITY REPORT 2021-2022

WORLD ENVIRONMENT DAY CELEBRATION- SHORT REVIEW PAPER COMPETITION

As part of World Environment Day celebration on 5th June 2021, Department of Biotechnology, St. Mary's college, Thrissur organized an Interdepartmental Short Review Paper Competition. The event was organized to make aware of the students about the biodiversity around them. The event was well attended by students and was led by Student Coordinator Ms. Rinu Rolly (II M Voc. Applied Biotechnology). 36 students from our college participated in this event. Out of this Najiya A S (I DC Biotechnology) came in the first position. Second prize was bagged by Aparna T P (I M.Voc Applied Biotechnology) and Afna Abu (III DC Biotechnology). Third prize was shared by Aleena Joju (I DC BCA), Afreen S (I DC Biotechnology) and Aysha Riza (I M.Voc Applied Biotechnology).



ST . MARY'S COLLEGE ,THRISSUR
Department of Biotechnology

WORLD ENVIRONMENT DAY
5th June 2021

Short Review Paper Competition

Topic : Biodiversity - ' WHO KNOWS WHAT'

Guidelines
Make a collage and review on your biodiversity
Share entries to: btsmcevents@gmail.com
Deadline of Submission : 15th June 2021
Cash award for winners

Review Format
Font : Times New Roman
Single Spacing
Title :14
Content :12

Dr. Sr. Magie Jose Dr. Dr. Saritha Francis Dr. Dr. Athul R Sandeep
Principal HOD Staff Co-ordinator

Rinu Rolly
Student Co-ordinator

Some entries for world environment day celebration

SHORT REVIEW PAPER COMPETITION

Topic:who knows what

Entry submitted by :Alisa Abu R. J DC B.sc Biotechnology ,St.Mary's college Thiruvananthapuram.



Within the boundaries of biosphere not far away from our gaze, propagates diversity with the power to sustain and heal living beings. The given collage includes a few different forms of biodiversity with a potential that we most of the times forget .A

glimpse to few species of plants the surround me and most households of outskirts in kerala .

MUKKOGOTII

Scientific name: Biophytum sensitivum
Order: Oxalidales
Family: Oxalidaceae

BIODIVERSITY - 'WHO KNOWS WHAT'

Abstract :-

Biodiversity is a crucial part of nature's precious assets that provide many human needs and insures against environmental disasters. Scientists have not yet reached a consensus on the definition of biodiversity; we will, therefore, discuss a variety of interpretations. Most biodiversity studies have focused on species diversity, but biodiversity has a more comprehensive aspect. Due to the extinction of plant and animal species, climate change, air pollution, advances in technology and industry, development of agricultural and urban lands, and changing human attitudes toward species, ecosystems, and landscapes, biodiversity has become a more attractive topic for researchers over the last decade. When diversity is being measured, a precise taxonomic classification of the subject must be made. Although many diversity indices and models have been proposed to quantify diversity, many of them confuse researchers. The use of new approaches, such as taking into account functional and genetic characteristics (functional diversity and phylogenetic diversity, respectively) has revealed hidden functions, services, and sustainability of ecosystems. These valuable measures have also created new issues. The variety of introduced indices, as well as the multidimensionality of ecosystem services and the different roles of species in different ecosystem functions, have raised new questions and numerous complexities. Therefore, researchers have tended to use multidimensional and trans-ecosystem approaches. In this review article, first, the definitions and concepts of biodiversity and its historical background are presented, and then new ideas, challenges, and opportunities are discussed.

Keywords :-

Biodiversity, new species, mostly insects, abundance, range, land use, climate, extinction.

Introduction :-

Biodiversity is the biological variety and variability of life on Earth. Biodiversity is a measure of variation at the genetic, species, and ecosystem level. Terrestrial biodiversity is usually greater near the equator, which is the result of the warm climate and high primary productivity. Biodiversity is not distributed evenly on Earth, and is

75th INDEPENDENCE DAY CELEBRATION 2021

INDIAN INDEPENDENCE HISTORY VIDEO MAKING COMPETITION

As a part of 75th Independence Day celebration, Department of Biotechnology organized an Indian Independence History Video Making Competition on 13th August 2021. Students from different departments participated and presented the patriotic stories of country's history.



ST. MARY'S COLLEGE, THRISSUR DEPARTMENT OF BIOTECHNOLOGY

Is organizing an Indian independence history
video competition as a part of India's 75th
Independence Day celebrations 2021



Interested students are requested to send a video describing the history of Indian Independence in less than 20 minutes and send to btsmcevents@gmail.com on or before 13th August 2021

Principal
Dr Sr Magie Jose

Head of the Department
Dr Saritha Francis

Programme coordinator
Dr Varsha C Mohanan

Student Programme coordinator
Athira M -2nd B Sc. Biotechnology

TEACHER'S DAY CELEBRATION 2021

Department of Biotechnology celebrated “GURU SAMARPANAM” in connection with teacher’s day on 5th September 2021. The teacher’s day programmes were streamed as YouTube live through the following link <https://youtu.be/ne4u4XS2VMo> .



Teachers Day Special Video By Department of 
Biotechnology | SMCTSR



Teachers Day Special Video By Department of 
Biotechnology | SMCTSR



Teachers Day Special Video By Department of 
Biotechnology | SMCTSR

NATIONAL NUTRITION WEEK 2021

Department of biotechnology in association with Physical education department, conducted a talk on Healthy Living: For Brain and Body in connection with National Nutrition Day on 09th September 2021. The resource person of the event was Abhilash PA, Physical Education Director, JDT Islam, Kozhikode. Total 75 candidates joined the event.



ST.MARY'S COLLEGE THRISSUR
(Affiliated to the University of Calicut, Re-accredited by NAAC with A grade)

NATIONAL NUTRITION WEEK 2021

DEPARTMENT OF BIOTECHNOLOGY
In association with
DEPARTMENT OF PHYSICAL EDUCATION

Organizes A Talk on
HEALTHY LIVING : FOR BRAIN AND BODY





09 SEP 7:00 pm



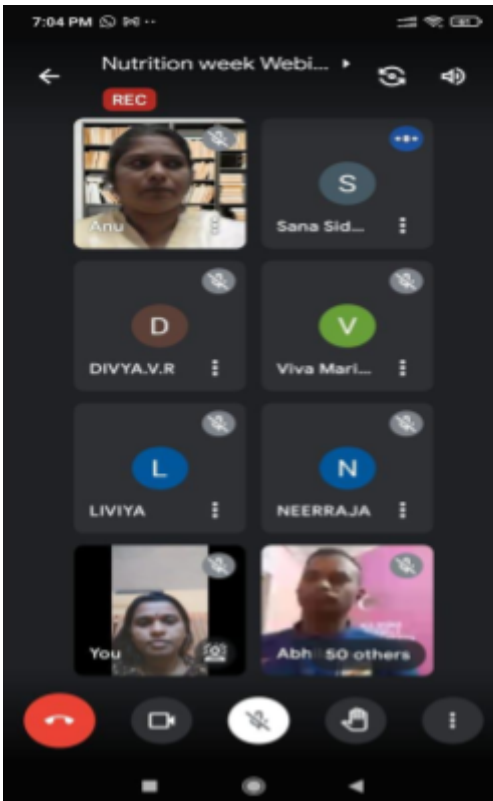
Resource Person
Abhilash P A
Physical Education Director
JDT Islam Kozhikode

Dr.Sr.Magie Jose
Principal

Lt.Anu D Alappat
HOD,Department of Physical Education

Dr.Saritha Francis
HOD,Department of Biotechnology

Divya V R
Student Co-ordinator



Functions of food

Your body is a finely tuned vehicle. Give it good fuel and it will take you places.

1. Physiological Functions

- To provide energy to the body
- To provide foods for building, maintenance and repairing of body
- Regulate activities of the body like breathing, maintenance of body temperature, muscle contraction etc.
- Maintenance of health.

vitamins.

- CHO are used for energy needs, so daily intake will depend on how many calories one need.
- However quantity required more than 130 g/ day for children and adult.

AGE	RDA (g/day)
0-6 months	60
7-12	95
1-8 years	130
9-18	130
19+	130
Pregnancy	175
Lactation	210

Source

- **Sugars:** found in fruits, honey, soft drinks, milk, and sugar.
- **Starch** Found in cereals, flour, bread, potatoes, root vegetables ..tc.

WORLD OZONE DAY 2021

Department of Biotechnology celebrated World Ozone Day on 16th September 2021, and as a part of this observation a talk was conducted on the topic- “OZONE: OUR COMMON FUTURE” by Dr. Subin K Jose, Assistant Professor, Department of Geology and

Environmental Science, Christ College, Irinjalakuda. 80 students from different departments were participated.



ST.MARY'S COLLEGE THRISSUR
(Affiliated to the University of Calicut, Re-accredited by NAAC with A grade)



DEPARTMENT OF BIOTECHNOLOGY

As a part of



WORLD OZONE DAY 2021
Organizes a talk
OZONE : OUR COMMON FUTURE



RESOURCE PERSON

Dr.Subin K.Jose
Assistant Professor
Dept. of Geology and Environmental science
Christ College Irinjalakuda



Dr.Sr.Magie Jose
Principal

Dr.Saritha Francis
HOD,Department of Biotechnology

Prasanna R Kovath
Faculty Co-ordinator

Devika Krishna
Student Co-ordinator

WORLD ALZHEIMER'S DAY OBSERVATION 2021

In connection with World Alzheimer's day, department of biotechnology conducted an International observation programme on "TRAIN YOUR BRAIN: MEMORY CHAMPIONSHIP" on 20th September 2021. Memory test was conducted including 3 rounds

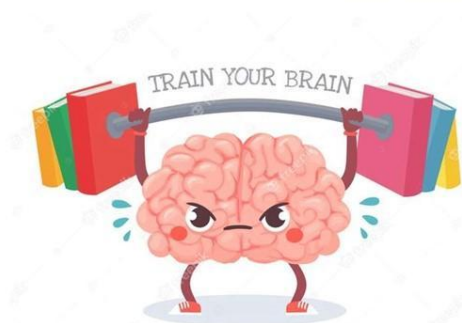
such as, Color identification, vocabulary and photographic memory. Total 8 groups of 3 members each were participated and 70 audiences were attended the event.



ST.MARY'S COLLEGE THRISSUR
(Affiliated to the University of Calicut, Re-accredited by NAAC with A grade)



DEPARTMENT OF BIOTECHNOLOGY
World Alzheimer's Day Observation 2021



A challenging opportunity for staff and students,
"TRAIN YOUR BRAIN : MEMORY CHAMPIONSHIP"

Guidelines :

- ☐ A team of 3 members of same stream can participate.
- ☐ Team limit 2 per stream.
- ☐ Registration open till 15th September 2021.
- ☐ <https://forms.gle/kHPtMwNTemcC7rMPg>

EXCITING PRIZES FOR THE WINNERS.....

Stay tuned : 20th September 2021

Dr.Sr.Magie Jose
Principal

Dr.Saritha Francis
HOD,Department of Biotechnology

Prasanna R Kovath
Faculty Co-ordinator

Mariya Joy
Student Co-ordinator



WORLD HABITAT DAY 2021

Department of biotechnology celebrated World Habitat Day in the vision of Accelerating Urban Action for a Carbon-Free World on 13th October 2021 and conducted a quiz competition for students on the same. Certificate of participation was given to all participants from different departments.



The poster is for a quiz competition at St. Mary's College, Thrissur, Department of Biotechnology. It features a green background with a faint image of a tree. The text is centered and includes the college name, department, event title, date, guidelines, a registration link, and the names of the principal, program in charge, HOD, and student in charge.

ST. MARY'S COLLEGE, THRISSUR
DEPARTMENT OF BIOTECHNOLOGY

'WORLD HABITAT DAY'
ACCELERATING URBAN ACTION FOR A
CARBON-FREE WORLD

QUIZ COMPETITION
On 13.10.2021

GUIDELINES:

- Time: 11.30AM-12.00PM
- Only one entry
- Participation certificate will be provided

Link:
<https://forms.gle/zvxqkrHtH73ooiqE9>

Principal
Dr.Sr.Magie Jose

Program in Charge:
Ms.Tisha Liza Tomy
(Dept. of Biotechnology)

HOD
Dr.Saritha Francis
(Dept. of Biotechnology)

Student in Charge:
Rishana Karippamkulam Kabeer
(1st DC BSc.Biotechnology)

INTERNATIONAL DAY FOR ERADICATION OF POVERTY 2021

As a part of International Day for Eradication of Poverty 2021, Department of Biotechnology organized a poster making competition in the topic 'Poverty- the worst form of violence' on 20th October 2021. A quiz competition was conducted based on the same, on 16th October 2021. An essay writing competition was organized on the topic- 'Acting together to achieve social and environmental justice to all'. E-certificate was provided to all the winners.

 **DEPARTMENT OF BIOTECHNOLOGY**
ST MARY'S COLLEGE THRISSUR



"INTERNATIONAL DAY FOR ERADICATION OF POVERTY"

Principal
DR. SR MAGIE JOSE

HOD
DR. SARITHA FRANCIS
(DEPT. OF BIOTECHNOLOGY)

Program in charge
MS. TISHA LIZA TOMY
(DEPT. OF BIOTECHNOLOGY)

Student coordinator
PARVATHY PRADEEP
(2ND DC BSC. BIOTECHNOLOGY)

POSTER MAKING COMPETITION

THEME: Poverty -the worst form of violence

Guidelines- *SIZE OF THE POSTER- A4 SHEET
*DRAWING/PAINTING INCLUDES PENCILS, CRAYONS, WATERCOLOUR, OIL PAINTING.
*AWARENESS QUOTES OR MESSAGES CAN BE INCLUDED.
* ONLY ONE ENTRY PER HEAD.

Send your entries on or before 20/10/21
btsmcevents@gmail.com

Student coordinator:
HILENA US
(Department of biotechnology)

ESSAY Writing competition

THEME: ACTING TOGETHER TO ACHIEVE SOCIAL AND ENVIRONMENTAL JUSTICE TO ALL

Guidelines: #Word limit 1500
#Either word or handwritten
#Language- English

SENT YOUR ENTRIES ON OR BEFORE 20/10/21
btsmcevents@gmail.com

STUDENT COORDINATOR:
Pooja Jayakumar
(Dept. of Biotechnology)

Quiz Competition

on 17th Oct

Guidelines:
* ONLY ONE ENTRY PER HEAD
* EACH QUESTION CARRIES ONE MARK
* E CERTIFICATE WILL BE PROVIDED (ABOVE 70%)
<https://forms.gle/EWRA3ikT4r1WZP9fA>

Student coordinator
RISHANA K
(DEPT. OF BIOTECHNOLOGY)

NATIONAL FOOD DAY COMMEMORATION 2021

As a part of National food day (16th October 2021), Department of Biotechnology organised a video making and speech competition on 20th October 2021. The competitions conducted on the theme 'Safe food now for a healthy tomorrow'.



NATIONAL YOUTH CONFIDENCE DAY 2021

Department of Biotechnology as a part of National youth confidence day 2021, organized a talk on topic 'Yes, We Can'. The gathering was addressed by Dr. P. J. Kochuthresia, retd. Professor, Consultant Psychologist & Performance on 21st October 2021. A debate competition was also conducted at the same day on theme 'IS YOUTH OF INDIA CONFIDENT OR CONFUSED?' and the students from various departments were

participated and the winners were awarded cash prize. Rs. 1000/- was given as first prize and Rs. 500/- was given as second prize.



St Mary's College Thrissur
(AFFILIATED TO UNIVERSITY OF CALICUT, RE-ACCREDITED BY NAAC WITH A GRADE)

Department of Biotechnology
As a part of
National Youth confidence Day 2021
Organizes a talk
"Yes, we can..."

Resource person
Dr. P. J. Kochuthresia
Retd. Professor
Consultant Psychologist & Performan

21-10-2021 11-12 pm

Dr. Sr Magie Jose
Principal

Dr. Saritha Francis
HOD Dept. Of Biotechnology

Mrs Tisha Liza Tomy
Faculty coordinator

Parvathy pradeep
Student coordinator



ST MARY'S COLLEGE THRISSUR
Department of Biotechnology
DEBATE COMPETITION

Theme: IS YOUTH OF INDIA CONFIDENT OR CONFUSED?

INSTRUCTIONS:
#This round will be of 30 minutes.
#Where each speaker gets 5 minutes.
#The winners will be awarded with cash prize.
#Medium of language, English/Malayalam.

21 - 10 - 2021
4PM-4:30PM

Principal
Dr. Sr Magie Jose

HOD
Dr. Saritha Francis
Dept of Biotechnology

Program coordinator
Mrs Tisha Liza Tomy
Dept of Biotechnology

Student coordinator
Keerthana Shajan

INTERNATIONAL ARTISTS DAY 2021

As a part of international artists day 2021, department of Biotechnology conducted a painting competition on 25th October 2021 under the theme 'UNITY'. And competition was conducted for both pencil and colour paintings and the prize winners were awarded E-certificates.



AZADI KA AMRIT MAHOTSAV 2021

PPT PRESENTATION COMPETITION

As a part of Azadi ka Amrit Mahotsav, department of biotechnology organized a PPT presentation competition on the topic 'IMPACT AND ALTERNATIVES FOR SINGLE USE

PLASTICS' on 5th November 2021. PG students from different departments were participated. And Cash prize given for the winners. The students presented innovative approaches to handle and manage the single use plastics in daily life.

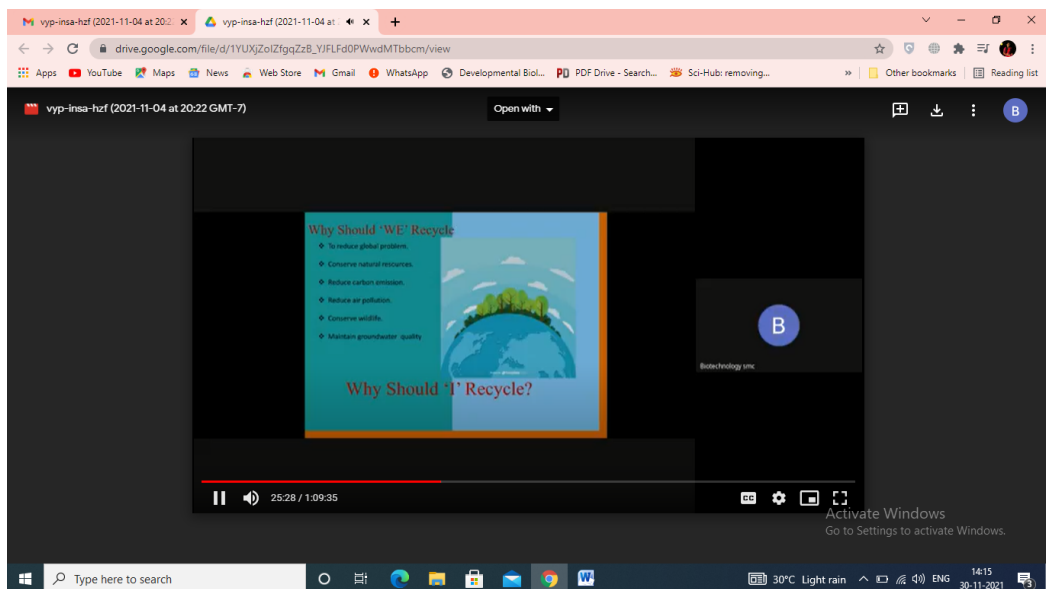
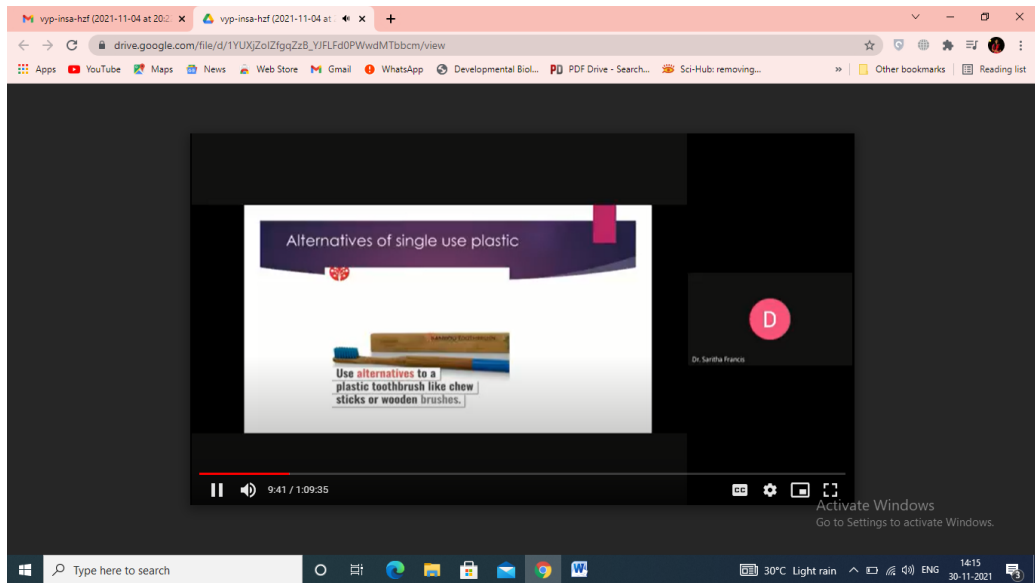
Winners;

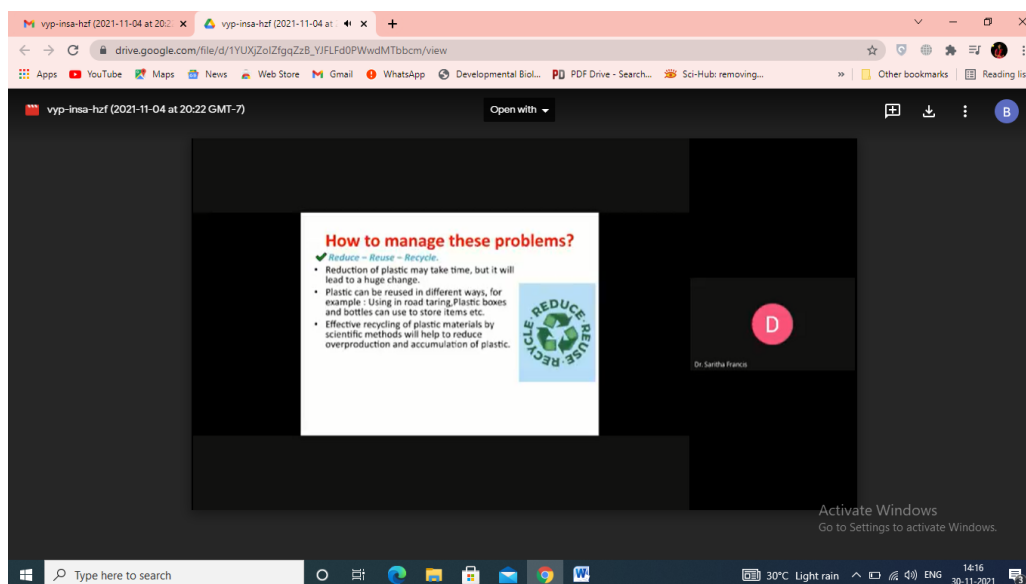
First Prize – Athira K anilkumar, Department of Psychology

Second Prize -Seethalakshmi VP, Department of Biology

Shafna Shakeer, Department of Biotechnology







AZADI KA AMRIT MAHOTSAV 2021

INVITED TALK ON AVOIDANCE OF SINGLE USE PLASTICS

As a part of AZADI KI AMRIT MAHOTSAV 2021, Department of Biotechnology organized an invited talk on ‘Avoidance of Single use Plastics’ on 19th November 2021. Mr. Bijith B.L, Assistant Development Commissioner & District Co-ordinator, District Suchitva Mission, Thrissur addressed the gathering and shared his valuable thoughts and gave awareness about the causes and concerns related to the improper management of single use plastics of daily life. 72 students attended the gathering. https://youtu.be/1Rn1FvJF3_8



St.Mary's College Thrissur
(Affiliated to university of Calicut, re-accredited by NACC with A grade)



AS A PART OF "AZADI KA AMRIT MAHOTSAV"

DEPARTMENT OF BIOTECHNOLOGY

organizes an invited talk on

"AVOIDANCE OF SINGLE USE PLASTICS"



19 NOV 21
7.00 P M

Google Meet Video call link:
<https://meet.google.com/sfo-ctrd-scc>



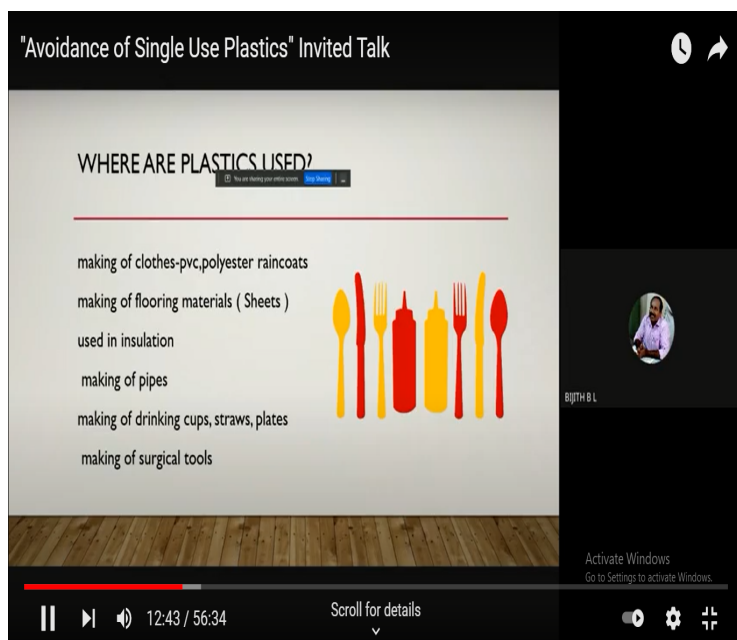
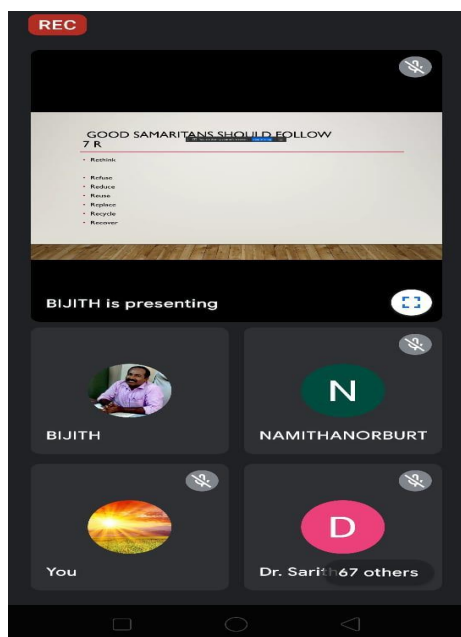
Resource person
Bijith B L
Assistant Development Commissioner &
District Co-Ordinator,
District Suchitwa Mission, Thrissur

Dr.Sr Magie Jose
Principal

Dr.Saritha Francis
HOD Dept.of.Biotechnology

Dr.Reshma.V.G
Faculty co-ordinator

Namitha Norburt Vakayil
Student co-ordinator



WORLD EVOLUTION DAY 2021

CARTOON DRAWING COMPETITION

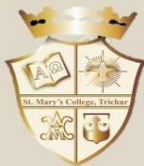
As a part of World Evolution Day 2021, Department of Biotechnology organized a Cartoon drawing competition on the theme 'Evolution' on 29th November 2021. 10 students were participated and candidates expressed their creativity in Evolution. Certificate and cash prize was given to winners.

Winners;

First Prize- Devika Jayadeeepkumar, I B.Sc., Biotechnology

Second Prize- Anjana P, I B. Com

Sandra PT, II M.Sc., Biotechnology



St.Mary's College Thrissur

(Affiliated to university of Calicut, re-accredited by NAAC with A grade)

"WORLD EVOLUTION DAY"

DEPARTMENT OF BIOTECHNOLOGY

ORGANISES

CARTOON DRAWING COMPETITION

**ON
29/11/2021**

For registration: <https://forms.gle/MpgXo9ChwyX8hXUY6>

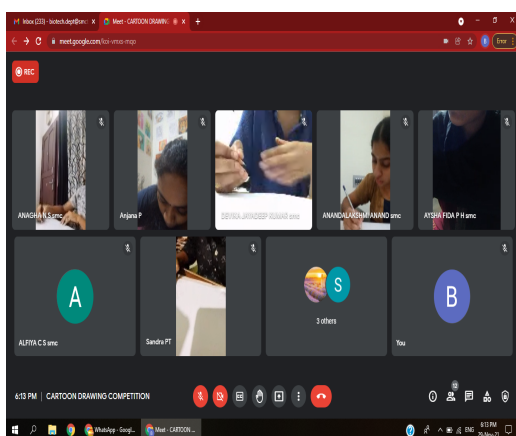


Principle
Dr Sr Magie Jose

HOD
Dr Saritha Francis

Program in charge:
Dr Reshma V G

Student in Charge:
Arathi M S





ST MARY'S COLLEGE THRISSUR

DEPARTMENT OF BIOTECHNOLOGY

"WORLD EVOLUTION DAY"

CARTOON DRAWING COMPETITION WINNERS

FIRST: DEVIKA JAYADEEP KUMAR
(1st DC BIOTECHNOLOGY)

SECOND: ANJANA P (1st DC B.COM)
&
SANDRA P T (2nd PG BIOTECHNOLOGY)

Hearty Congrats to all winners



Principal
Dr Sr Magie Jose

HOD
Dr Saritha Francis

Faculty Coordinator
Dr Reshma V G

Student Coordinator
Arathi M S (2nd DC Biotech)

INTERNATIONAL HUMAN RIGHTS DAY COMMEMORATION 2021

In connection with International Human Rights Day, Department of biotechnology conducted a talk on Women's Rights and Legislation on 10th December 2021 at 6.00pm. The gathering is addressed by Adv. Remya Menon, Additional Chief Judicial Magistrate, Thrissur. The resource person enlightened students about the current scenario of domestic violence and Dowry, Pocso act and child welfare, sexual abuse and harassment towards women in public as well as working place. 50 students of department of biotechnology were participated in the event.



St. Mary's College, Thrissur

(Affiliated to the University of Calicut, Re-accredited by NAAC with A grade)



In Connection with

International Human Rights Day

Department of Biotechnology

Organizes a Talk on

**'Women's Rights
and
Legislation'**




6

: 00

PM



Video call link:
<https://meet.google.com/sea-tzmh-jdp>

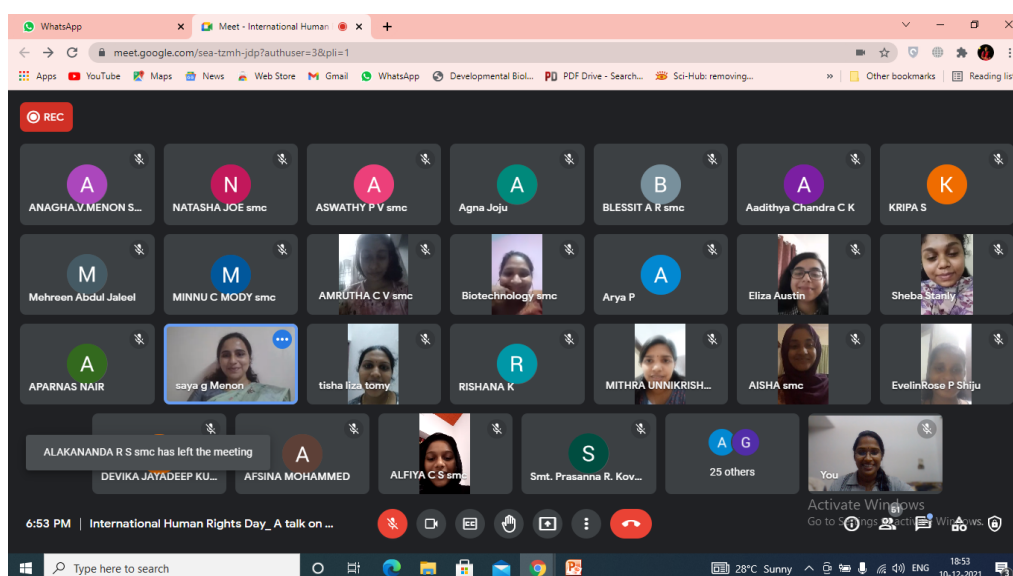
Principal
Dr. Sr. Magie Jose

HOD
Dr. Saritha Francis

Faculty Coordinator
Ms. Renjimol R

Resource Person
Adv. Remya Menon
 Additional Chief Judicial
 Magistrate, Thrissur

Student Coordinator
Eliza Austin
(I B.Sc. Biotechnology)



WORLD SOIL DAY OBSERVATION 2021

As a part of world soil day, Department of Biotechnology organized a Malayalam poem writing competition on the theme ‘മണ്ണ്’ on 10th December 2021. Students from various departments were participated and enthusiastically expressed their perspectives on the soul of soil. The winners of the competition were given certificate and prizes.

Winners:

First Prize - Jasmine Rasheed (M.Sc. Psychology)

Consolidation Prizes - Aleena Maris (BA Economics)

Blessit AR (B.Sc. Biotechnology)

ST. MARY'S COLLEGE, THRISSUR
(Affiliated to the University of Calicut, Re-accredited by NAAC with A grade)

Department of Biotechnology

WORLD SOIL DAY
December 5th

Poem Writing Competition

On Theme
“ മണ്ണ് ”

Entries should be sent to e-mail ID: btsmcevents@gmail.com
on or before 10th December 2021

Principal Dr. Sr. Magie Jose	HOD Dr. Saritha Francis	Faculty Coordinator Ms. Renjmol R	Student Coordinator Smriti Menon (I M.Sc. General Biotechnology)
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