

SREE AYYAPPA COLLEGE ERAMALLIKARA CHENGANNUR

**Report on
Certified course on Sustainable development
Joint venture
NSS, Bhoomithra sena Club
Department of Biochemistry and Industrial
Microbiology**



ORDER

PROCEEDINGS OF THE PRINCIPAL SREE AYYAPPA COLLEGE,ERAMALLIKKARA.

No: SAC/PL/2020

Date : 01.06.2020

ORDER

Read : College council minutes dated 29/01/2020.

With reference to above, it is decided to conduct the Certificate value added course for a minimum of 35 hours in online mode. which included theory and practical sessions, training seminars, and workshops, The course will be a joint venture of the Bhoomithrasena club NSS unit and the Department of Biochemistry and Microbiology. Dr, Ganga,G, and Dr.Remya.L(NSS Program officer) will be course coordinators of the course. Dr.Nitha and Dr.Rejiya.C.S of Dept of Biochemistry and Industrial Microbiology are faculty members and they will help in the course design, planning, and implementation of the program.

The course co-ordinators are directed to submit the complete report soon after the course completion




PRINCIPAL

Handwritten signature of the Principal over a rectangular official stamp. The stamp contains the text: "SAC/PL/2020", "01.06.2020", "Principal", "Sree Ayyappa College, Eramallikkara", and "Kannur District, Kerala".

NOTICE

Sree Ayyappa Colle Eramalikkara Chengannur is conducting a Value added certificate course having 35 hours duration in online mode, on "**Sustainable Development**" (SD012020) from 02/07/2020. Students who are interested to join the course are requested to contact the NSS programme officers or the Dept of Biochemistry and Industrial Microbiology for further details.


Principal
Ayyappa College
Eramalikkara, Chengannur
Kannur District, Kerala



SREE AYYAPPA COLLEGE

NATIONAL SERVICE SCHEME

BHOOMITHRA SENA CLUB

BIOCHEMISTRY AND INDUSTRIAL

MICROBIOLOGY DEPT

CERTIFIED COURSE ON

SUSTAINABLE DEVELOPMENT

STARTING DATE

JULY 02
2020

COURSE ELIGIBILITY

**STUDENTS FROM ANY SCIENCE
DISCIPLINE**



On 
Google meet

CO ORDINATORS : Dr Ganga G
Dr Remya L

PROGRAMME CHART

INAUGURATION :

Dr. K C PRAKASH

WELCOME :

Dr. GANGA G

FELICITATION :

Dr. SURESH S

Dr. NITHA B

Dr. REJIYA C S

VOTE OF THANKS :

Dr. REMYA L



SREE AYYAPPA COLLEGE ERAMALLIKRA
CHENGANNUR
JOINT VENTURE
BMC, NSS AND DEPT OF BC AND IMB
CERTIFIED COURSE ON SUSTAINABLE DEVELOPMENT
COURSE CODE: (SD 012020)

Introduction

We live in a rapidly changing world that is transforming before our very eyes. A multitude of deep and pressing concerns such as global inequality, climate change, biodiversity loss, unrestrained urbanisation and destructive forms of economic growth are calling for our immediate attention. All of us are called to actively be part of this civilisation-wide effort to re-design and co-create a healthier and more fulfilling world for all.

Design for Sustainability & Regeneration will provide you with a deeper understanding of how to integrate systemic thinking into all processes and how to create a multiplier effect for education for sustainability. It will also improve your social, economic, worldview and ecological design thinking skills of the present without compromising the ability of future generations to meet their own needs” (Brundtland Report 1987). More specific sustainable development goals (SDGs) have been formulated by the UN in 2015. The most critical resources for the survival of future generations are climate stability and biodiversity. Therefore, we have to respect the planetary boundaries of economic activity today. However, today many people are still far from being able to meet their basic needs, especially in developing countries. SD not only addresses the question of inter-generational justice but also this intra-generational issue: How to improve the life of the poor without overburdening the ecosystems? This is a challenge for individual lifestyles (especially in rich nations), for companies and for government policy. The lecture provides a basic understanding of these challenges, introduces strategies and instruments and practical tools to create regenerative communities. We truly believe the world can change one person and one community at a time. Sustainable Development (SD) is defined as “development that meets the needs for sustainable development

Eligibility : Students from any science stream ,and pursuing undergraduate course

Learning objectives

- Understand the basic concept of Sustainable Development (SD), the environmental, social and economic dimensions. Know the history of the SD idea.
- Be able to discuss the conflicts which are involved in the SD concept on the national as well as on the global scale. –
- Be familiar with potential strategic options for SD (efficiency, sufficiency). –
- Be able to discuss the (dis-)advantages of instruments for SD. – Understand the SD challenge for companies, their responsibility and their potentials for action.

Total Hours 35

Module 1: Getting to Know the Sustainable Development (10hrs)

Introduction to sustainable development .Sustainable development , Sustainable Development Goals include: No Poverty – End poverty in all its forms everywhere. Zero Hunger – End hunger, achieve food security and improved nutrition and promote sustainable agriculture. Good Health and Well-being – Ensure healthy lives and promote well-being for all at all ages. History agenda earth summit world leaders involved in the process Rio+20 Summit Environment climate changes

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Module 2: Sustainable Development Plans (10 hrs)

Basic Concepts, Strategies and Measurement 3 Efficiency and Innovation, Green Growth and Green Audit, Energy Audit ,Green Energy. Green buildings ,green procurements Development plans, Sustainable backcasting exercises biodiversity ,Instruments on SDG

Module 3: Technology, Innovation, and the SDGs (10hrs)

Technologies Available for SDGs, Modern and thinking technologies ,Innovations and current status, Critical challenges on Sustainable development challenges decarbonization of the economy to mitigate the effects of climate change Information and communication technologies also present unique opportunities for a range of sectors,

Practical session /training/workshops on Creating Ideas on Sustainable development (5hrs)

Expected outcome of the program

- Summarise the main characteristics of the dominant worldview and explain how closely linked to the how we closely linked to sustainable development with a focuses on mechanistic, quantifiable, measurable and predictable aspects of living systems.
- Explain how needs and ways of attaining Sustainable development its history and its structure.
- Name a series of practices that have been used by effective change-agents to reconnect with the natural world. Something that has helped to achieve sustainable development
- Explian real time situation and success stories
- Structure an engagement process in a way that integrates multiple perspectives to achieve the goal

Literature and Course Materials —

FU Hagen / Lund University, Climate Change – A Question of Justice? Massive Open Online Course (MOOC),

<https://mooc.umweltwissenschaften.de/> — Check e-learning platform for new additional course materials

2.1 Literature Buchholtz, Ann K. / Carroll, Archie B. (2009): Business & Society, 7th ed., (SouthWestern, Cengage) Crane, Andrew / Matten, Dirk (2010): Business Ethics: Managing Corporate Citizenship and Sustainability in the Age of Globalization, 3rd ed., Oxford (Oxford University Press)

Duflo, Esther / Banerjee, Abhijit V. (2001): Poor Economics. A Radical Rethinking of the Way to Fight Global Poverty, New York (PublicAffairs) soz 3.19 2012 93

Hart, Stuart L. (2005): Capitalism at the Crossroads: The Unlimited Business Opportunities in Solving the World's Most Difficult Problems, Philadelphia, PA (Wharton School)

Hoffmann, A. J. / Woody, J. G. (2008): CI

REPORT AND OUTCOME OF THE PROGRAM

A 35 hour of Scheduled classes ,training and workshop were conducted for NSS and BMC participants of BC and IMB department. . Program started from 2ND July 2020 to 31ST December 2020, based on the exam held on December, Program was started initially with 15 registered participants. However, five active participants were awarded with certificates. Apart from course materials different training programs such as environment protection wild life conservation, ozone layer protection. Along with WWF training program on designing and development of project ideas for sustainable eco-friendly products. Students who attended sustainable development course was participated in National ECHO SUMMIT with a project idea to reach SD17 goals (sustainable developed goals)

Major Milestone and outcome of the program

- Basic understanding of SDG goals, ECO submit, Green Products, Environmental protection
- The learning out come of the program is they could able to present a project idea on based on sustainable development goals 13.1
- Idea like DRINKING AND CNSERVATION EATING AND CONSERVATION WEARING AND CONSERVATION WORKING AND CONSERVATION WERE LEARNED
- Carbon foot print and its Reductions were learned
- Based on the course that they have learned training programs that they have attended the project ideas that they have developed they could able to design a project on development of sanitary Napkin from water hyacinth and hydrogel and application as biodegradable plastic materials.
- Application of this could able to attain 5 out of 17 SDG GOALS

TOTAL NUMBER OF REGISTERD CANDIDATES Sustainable Development” (SD012020) COURSE

SELECTION CRITERIA

Selection of students was done based on the active participation in Nature conservation and protection program.

1. Sunaina Nair.S.S
2. Sreelekshmi. S
3. Parvathy
4. Alan
5. Ramdath
6. Salini S
7. Anandha Narayanan
8. Kavya .K
9. Gayathri
10. Aravind Sunil
11. Snehapriyan
12. Divyamol Kesavan
13. Silpanjali. S
14. Sauganth
15. Geethu Murukesh

Course completion certificate was issued to

Course completion was done by

1. Sunaina.Nair ,S.S
2. Sreelekshmi.s
3. Parvathy.
4. Gayathri
5. Aravindh suni

COURSE REPORT



Zoom Meeting

You are viewing Neha Raghu's screen View Options

Dr.Ganga. G Caroline Pais

Neha Raghu Ambreen Khan Chandini Ag

Recording

WWF 50

DESIGN THINKING & CONSERVATION

NEXTGEN CUP CHALLENGE

Chat

From Veda Rakshana Aava, Telangana to Everyone: 64 boxes .

From Rajashree, Tamilnadu to Everyone: using position s of coins

From Manisha Doley to Everyone: 204

From Anamika K, Maharashtra to Everyone: 204

From Mithi Saksharkar to Everyone: To count the total number of squares on a checkerboard, you have to consider squares of all sizes. The 1x1 and 8x8 squares are the easiest. There are 64 1x1 squares and a single 8x8 square.

From Meher Vadehra to Everyone: 2 to the power of 3 + 2 to the power 3?

From Thara.J, Tamilnadu to Everyone: 8 tiny squares

From Basanta kr, Dhadumiya to Everyone: 72

From Mithi Saksharkar to Everyone: mind manipulation .

From Ansha Biswas, West Bengal to Everyone: 204

From Sijo George to Everyone: Nice presentation

To: Everyone

Type message here...

Unmute Start Video Participants Chat Share Screen Record Reactions Leave

Type here to search

13:16 16-10-2020

Zoom Meeting

Sreelekshmi.S

Ganga G

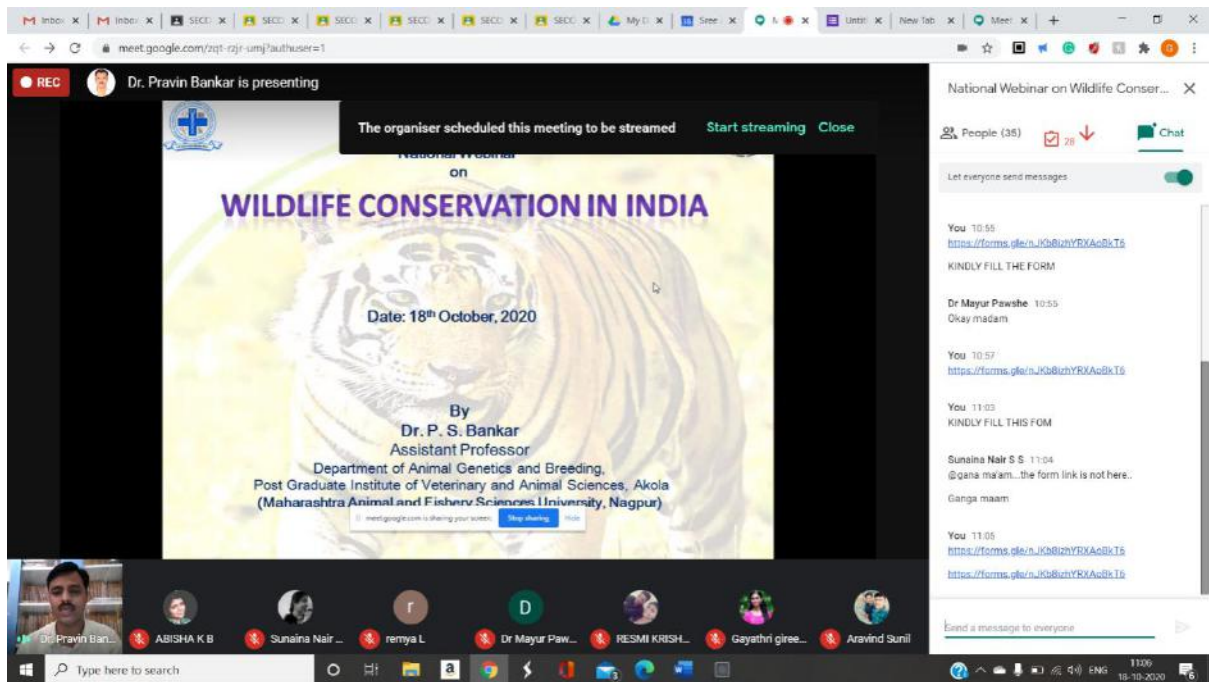
Parvathy

Dr Prakash KC

Sunaina Nair.S.S

Gayathri Kannan

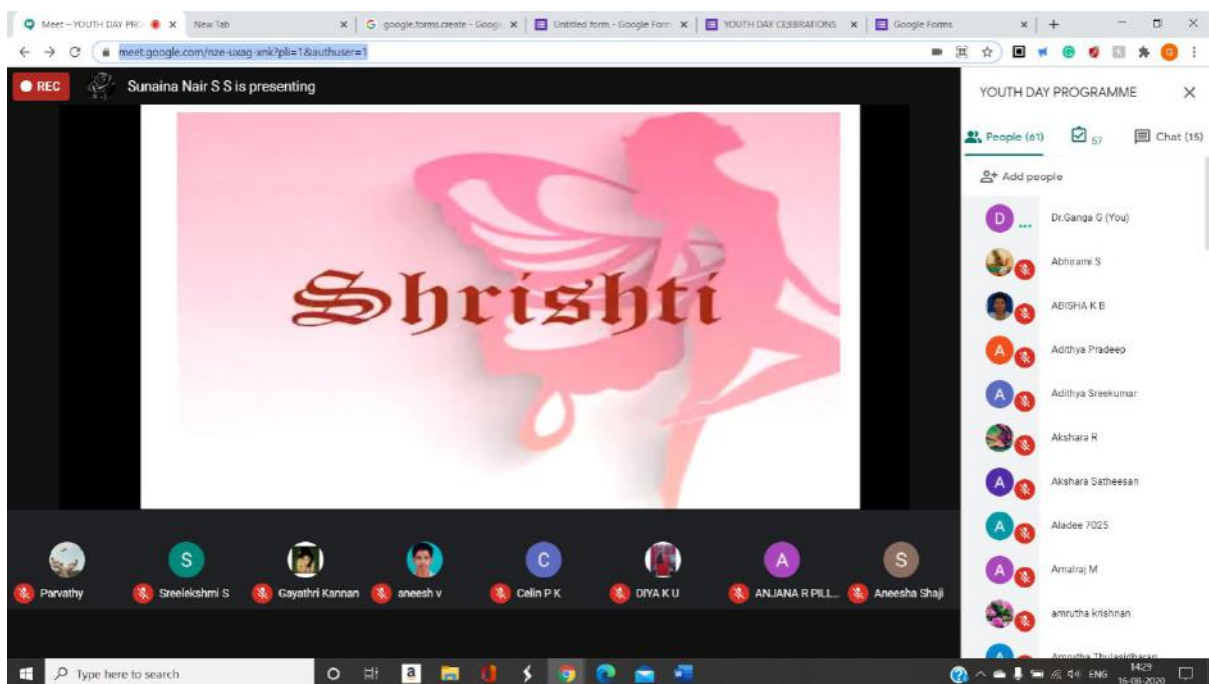
Dr Remya L

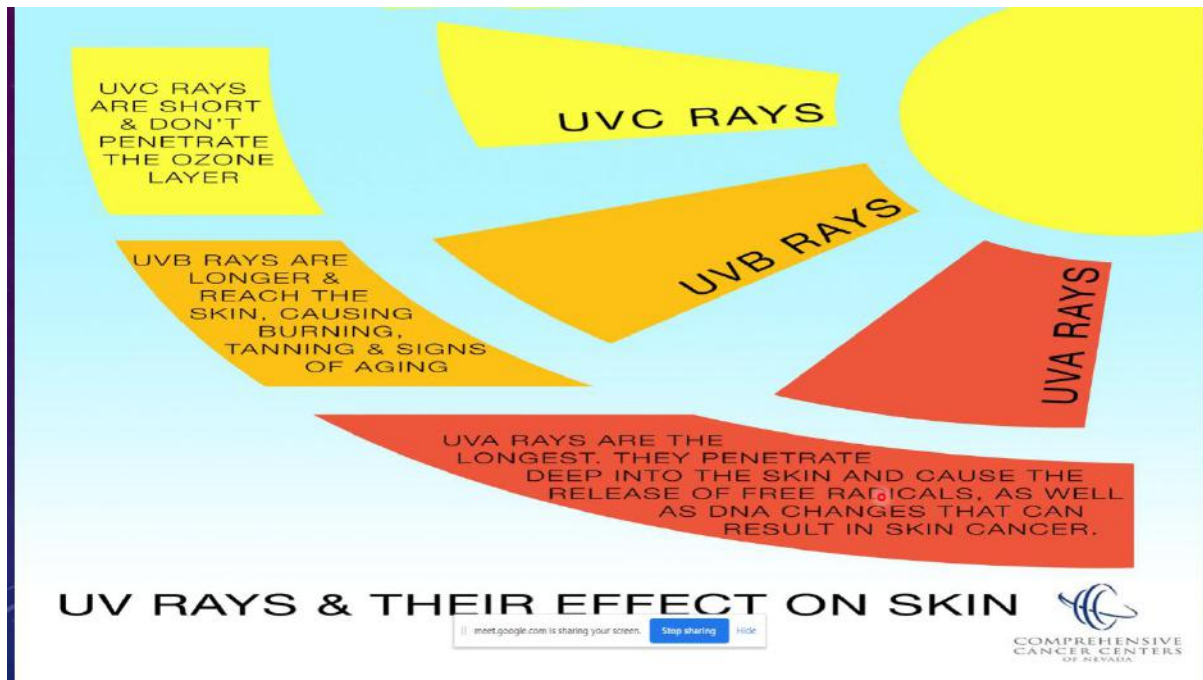


Dr.Ganga.G conducting Class on sustainable development ,ways and means

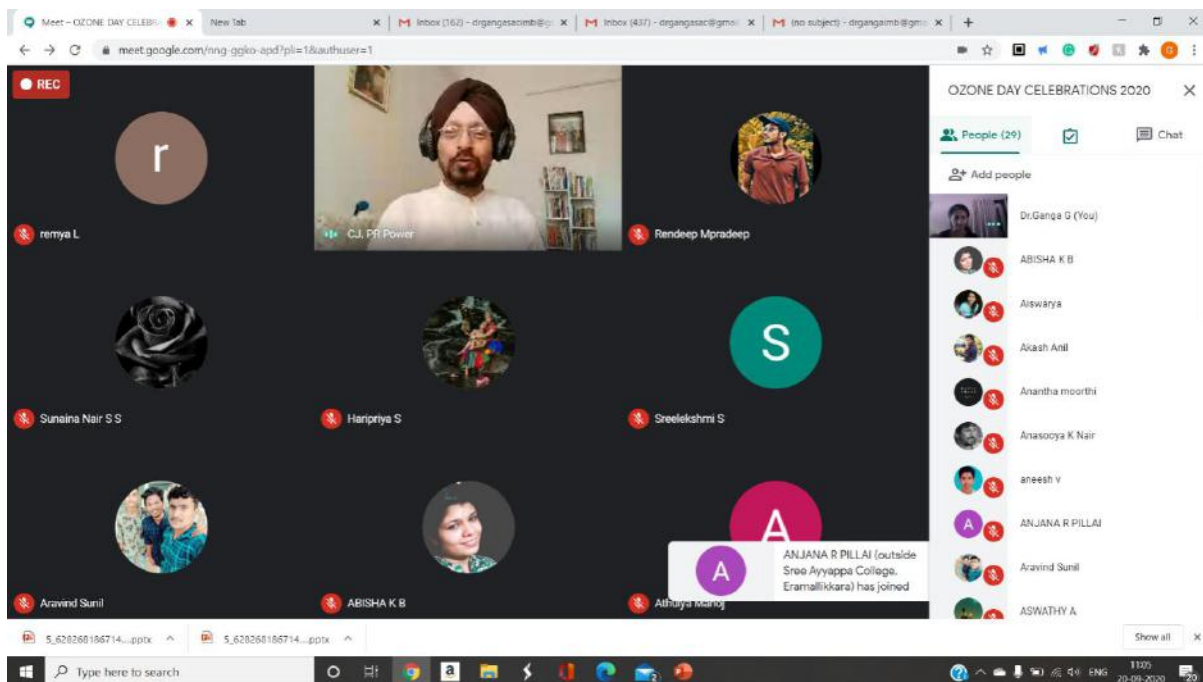
Training on Biodegradable sanitary napkins for Sustainable development

Sunaina nair S.S the students of Sustainable development course is taking a workshop and training to Adolescence

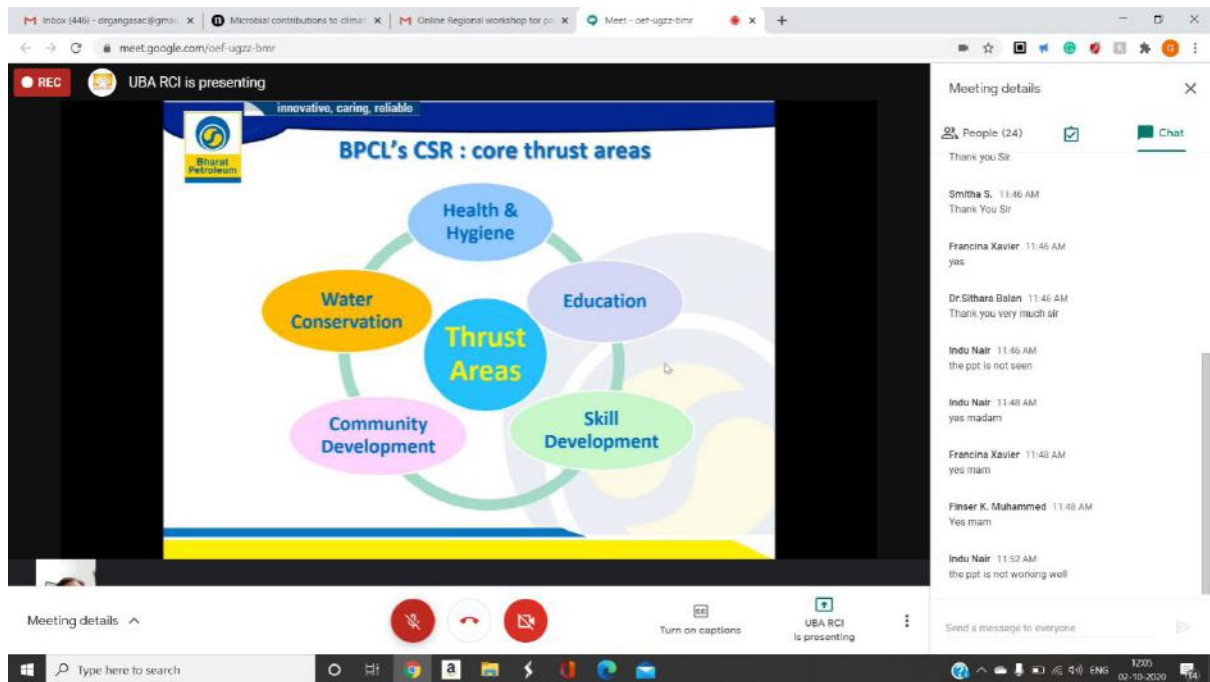




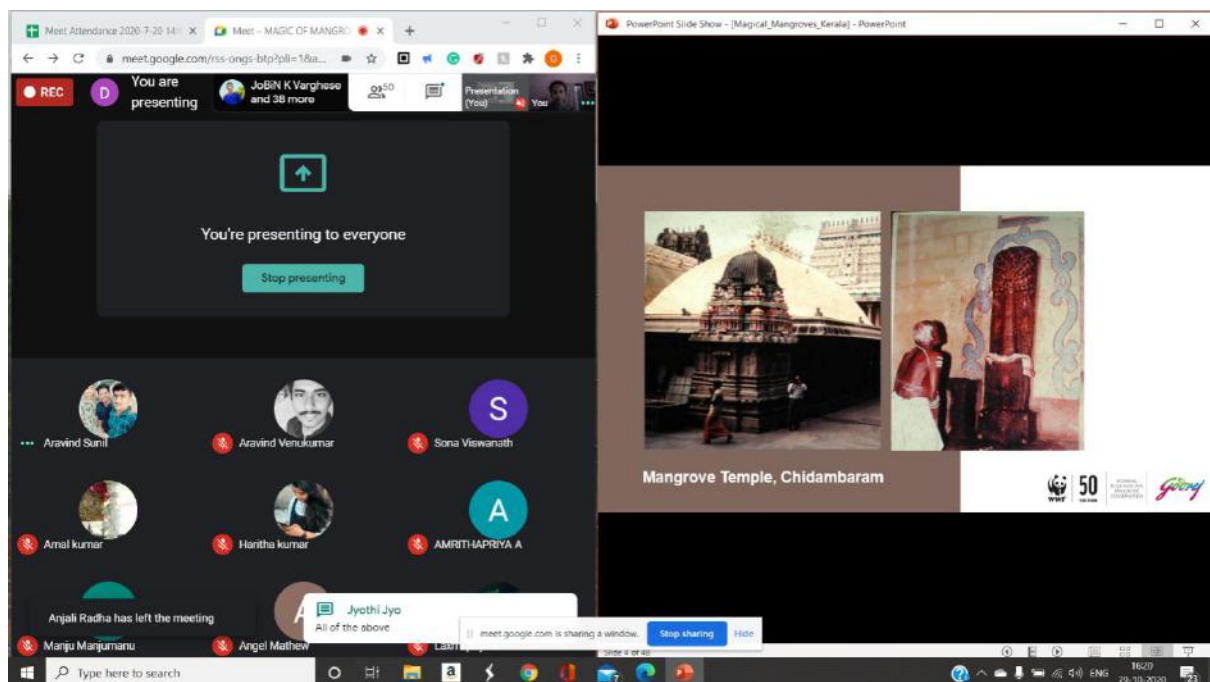
Class on sustainable development goals in Health care



WEBINAR ON OZONE LAYER PROTECTION -GREEN PRODUCTS AND REDUCE OZONE LAYER DEPETION-SPECIAL EMPHASIS ON SUSTAINABLE DEVELOPMENT

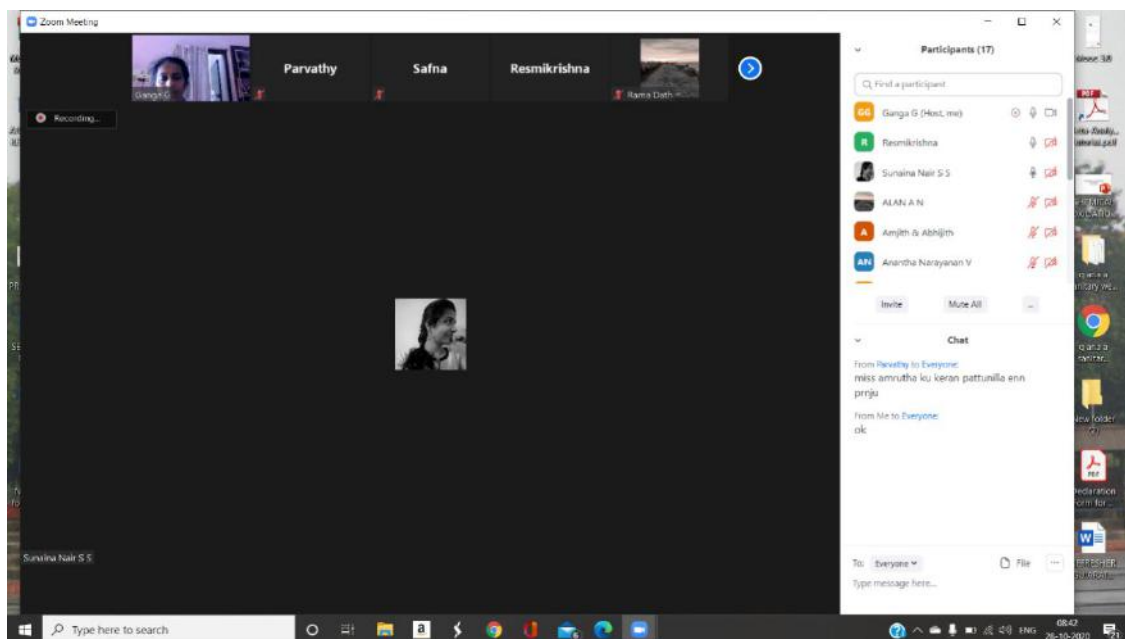
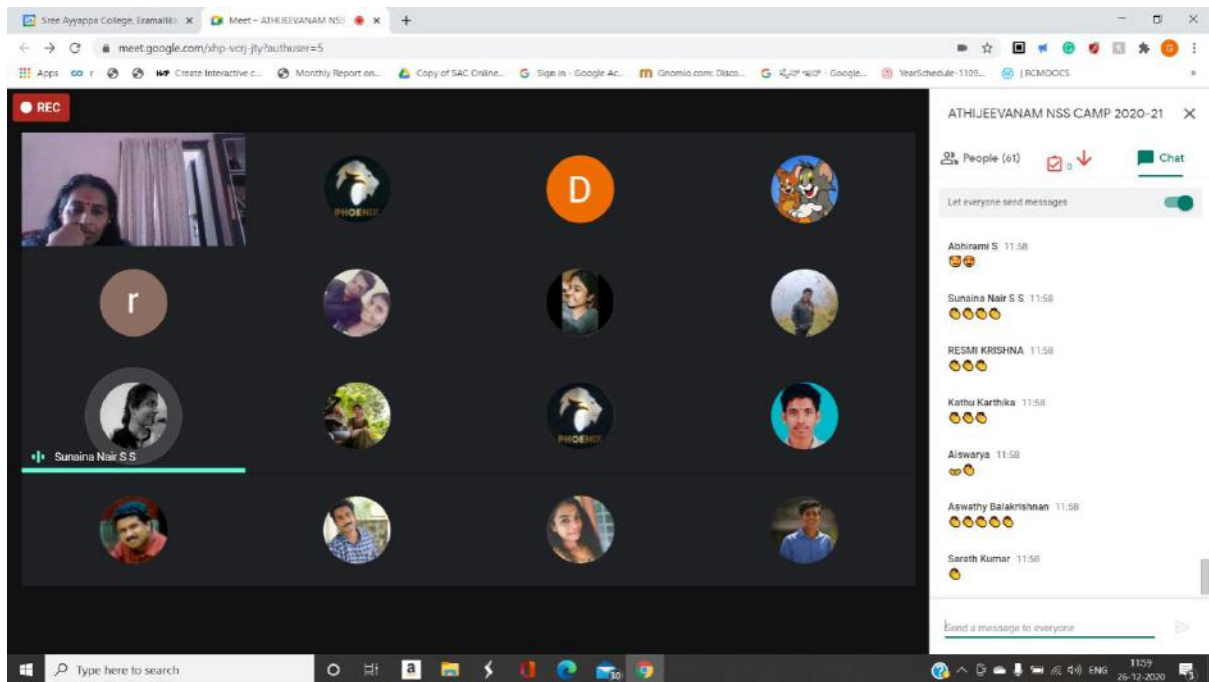


Training program (BPCL(BHARATH PETROLEUM LIMITED WITH UNNATH BHARATH ABHIYAN) ON THRUST AREA OF ENVIRONMENTAL SUSTAINABILITY



Dr.Ganga.G conducting Class on sustainable development ,ways and means

26.12.2020 students conducting training programim other students



Sustainable development class for students on 28/10/30

Question paper

EXAMINATION ON CERTIFICATE COURSE

SUSTAINABLE DEVELOPMENT

Course code SDG 01202

Time:2hours

Marks :50

Answer all questions

5x2=10

- 1.What is Sustainable Development?
- 2.What is the 2030 Agenda?
- 3.Who implements the 2030 Agenda?
- 4.What id Rio submite
- 5.what is SDG17?

Answer any four marks

4x5=20

- 6.What are the SDGs?
- 7.Why is the environmental dimension so important to the success of the new Agenda?
- 8.Who implements the 2030 Agenda?
- 9.How does the system for follow-up and review work?
- 10.What is UN Environment`s role?
- 11.Explaiin biodiversity and protection
12. Green Audit and rules
- 11.Energy audits and rules

Essay Questions Answer any one

20x1=20

- 12.Essay on SDG ,explain each goals and its significance
- 13.What are the major challenges confronting sustainable development?

SRE AYYAPPA COLLEGE ERAMALLIKARA
NSS BMC and Dept of Biochemistry and industrial
Microbiology

**Certified course on Sustainable
Development (SD012020)**

This certificate is awarded to

Ms .Sunaina.Nair .S.S Department of Biochemistry and Industrial Microbiology

for the successful completion of the course

Cordinators

Dr.Ganga.G

Dr.Remaya,L

01/01/2021

Date

Principal

K.C.Prakash
Eravankulam, Chengannur,
Thiruvananthapuram, Kerala

Dept of BC and IMB and NSS

ATTENDANCE July 20-december20

CERIFICATE COURSE ON SUSTAINABLE DEVELOPMENT SD012020

JULY

NAME OF THE STUDENT	01 Jul 2020	14 Jul 2020	15 Jul 2020	16 Jul 2020	21 Jul 2020	23 Jul 2020	24 Jul 2020	30 Jul 2020
Sreelakshmi.S	x	x	x	x	x	x	x	x
Sauganth	x	x	x	x	x	x	x	x
Sunaina Nair.S.S	x	x	x	x	x	x	x	x
AravindSunil	x	x	x	x	A	x	x	A
parvathy	x	x	x	x	x	x	x	x
Alan	x	x	x	x	x	x	x	x
Ramdeth	x	x	x	x	x	x	x	x
Salini S	A	x	x	x	x	x	x	x
Anandha Narayan	x	x	x	x	x	x	x	x
Kavya .K	x	x	A	x	x	x	x	x
Gayathri	x	x	x	x	A	x	x	x
Geethu Murukesh	x	x	x	x	x	A	A	A
Snehapriyan	x	x	x	x	x	A	x	x
Divyamol Kesavan	x	x	x	x	x	x	A	A
Silpanjali.s	x	x	x	x	x	x	x	x



Ernakulam College (T.D.S)
Thiruvananthapuram, Kerala
Alappuzha Dist, Kerala
Thiruvananthapuram, 689 109

Dr. Ananya. L
Dr. Ananya. L.

AUGUST	01 Aug 2020	13 Aug 2020	20 Aug 2020	21 Aug 2020	25 Aug 2020	26 Aug 2020	28 Aug 2020	31 Aug 2020
Sreelakshmi.S	x	x	x	x	x	x	x	x
Sauganth	x	x	x	x	x	x	x	x
Sunaina Nair.S.S	x	x	x	x	x	x	x	x
AravindSunil	x	x	x	x	x	x	x	x
parvathy	x	x	x	x	x	x	x	x
Alan	x	x	x	x	x	x	x	x
Salini S	x	x	x	x	x	x	x	x
Anandha Narayan	x	x	x	x	x	x	x	A
Kavya .K	x	x	x	x	x	x	x	A
Gayathri	x	x	x	x	x	x	x	x
Geethu Murukesh	x	x	x	x	x	x	x	x
Snehapriyan	x	x	x	x	x	x	A	A
Divyamol Kesavan	x	x	x	A	x	x	x	x
Silpanjali.s	x	x	x	x	x	x	x	x
Alan	x	x	x	x	x	x	x	x
Ramadeth	x	x	x	x	x	x	x	x

Dr. Gangai. S

Dr. Remya. L. Remya. C



Dr. Remya. L. Remya. C
Principal
Thiruvananthapuram District College
Thiruvananthapuram, Kerala
Stree. Aravindapuram - 583301

SEPTEMBER	01 Sep 2020	02 Sep 2020	09-09-2020
Sreelakshmi.S	x	x	x
Sauganth	x	x	x
Sunaina Nair.S.S	x	x	x
AravindSunil	x	x	x
parvathy	x	x	A
Alan	x	x	x
Salini S	x	x	x
Anandha Narayan	x	x	x
Kavya .K	x	x	x
Gayathri	x	x	x
Geethu Murukesh	x	x	A
Snehapriyan	x	x	x
Divyamol Kesavan	x	x	x
Silpanjali.s	x	x	x
Alan	x	x	x
Ramadeth	x	x	x

Dr. Ananya

Dr. Ranya.d Ranya.L



PRINCIPAL
Sree Ayyappa College
Thiruvananthapuram - 689 109
Alappuzha Dist, Kerala

(T.D.S)
Sree Ayyappa College
Thiruvananthapuram - 689 109
Alappuzha Dist, Kerala

OCTOBER	07 Oct 2020	09 Oct 2020	10 Oct 2020	14 Oct 2020	16 Oct 2020	17 Oct 2020	20 Oct 2020	21 Oct 2020
Sreelakshmi.S	x	x	x	x	x	x	x	x
Sauganth	x	x	x	x	x	x	x	x
Sunaina Nair.S.S	x	x	x	x	x	x	x	x
AravindSunil	x	x	x	x	x	x	x	x
parvathy	x	x	x	x	x	x	x	x
Salini S	x	x	x	x	x	x	x	x
Anandha Narayan	x	x	x	x	x	x	x	x
Kavya .K	x	x	x	x	x	x	x	x
Gayathri	x	A	x	x	x	x	x	x
Geethu Murukesh	x	x	A	x	A	A	A	A
Snehapriyan	x	x	x	x	x	A	x	A
Divyamol Kesavan	x	x	x	x	x	x	A	x
Silpanjali.s	A	x	A	x	x	x	x	A
Alan	x	x	x	x	x	x	x	x
Ramadeth	x	x	x	x	x	x	x	x



Dr. George G. Gft
Dr. Ranya L. Ranya L

(Handwritten signature)

PRINCIPAL
Sree Ayyappa College (T.D.B)
Eramalikkara - 689 109
Thiruvananthapuram, Changanur,
Alappuzha Dist, Kerala

DECEMBER	03 Dec 2020	10 Dec 2020	14 Dec 2020	15 Dec 2020	16 Dec 2020	19 Dec 2020	30 Dec 2020	31 Dec 2020
Sreelakshmi.S	x	x	x	x	x	x	x	x
Sauganth	x	x	x	x	x	x	x	x
Sunaina Nair.S.S	x	x	x	x	x	x	x	x
AravindSunil	x	x	x	x	x	x	x	x
parvathy	x	x	x	x	x	x	x	x
Salini S	x	x	x	A	x	A	x	x
Anandha Narayan	x	x	x	A	x	A	x	x
Kavya .K	A	x	x	A	x	A	x	x
Gayathri	x	A	x	A	x	A	x	x
Geethu Murukesh	x	x	A	x	x	A	x	x
Snehapriyan	x	x	x	A	x	x	x	x
Divyamol Kesavan	x	x	x	x	A	A	A	x
Silpanjali.s		x	x	x	x	x	x	x

Dr. Rangana Off.
Dr. Rangana L. Rangana



PRINCIPAL (T.D.B)
Sree Ayyappa College (T.D.B)
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Thiruvananthapuram, Changanur,
Alappuzha Dist, Kerala