

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

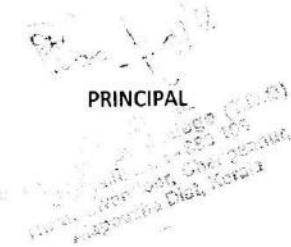
Date : 01.06.2020

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.

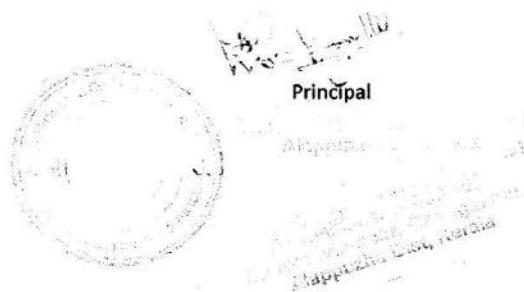
The course co-ordinators are directed to submit the complete report soon after the course completion



PRINCIPAL

NOTICE

Sree Ayyappa Colle Eramallikkara 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.





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

Dr Ganga G
CO ORDINATORS : 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
JOINTVENTURE
BMC,NSS AND DEPT OF BC AND IMB
CERIFIED 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 ts for sustainable development

Eligibility : Students from any science stream ,and pursing 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 submit world leaders involved int the process Rio+20 Summit Environment climate changes

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 Deveopment 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 focus 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
- Explain 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): Cl

REPORT AND OUTCOME OF THE PROGAM

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 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



ECHO JOURNEY

1. EXPLORE

2. IDEATE

3. ENGAGE

4. COMMUNICATE

Participants: 274

Dr. Ganga. G

Participants: 274

Leave

Unmute Start Video Participants Chat Share Screen Record Reactions



PROJECT DESIGN

IDENTIFY A SPECIFIC ISSUE

FIND SMART SOLUTIONS/ALTERNATIVES

GENERATE AWARENESS ABOUT THE PROBLEM AND THE SOLUTION

REDUCE IMPACT OF THE IDENTIFIED PROBLEM

ENCOURAGE COMMUNITY/YOUTH ACTION

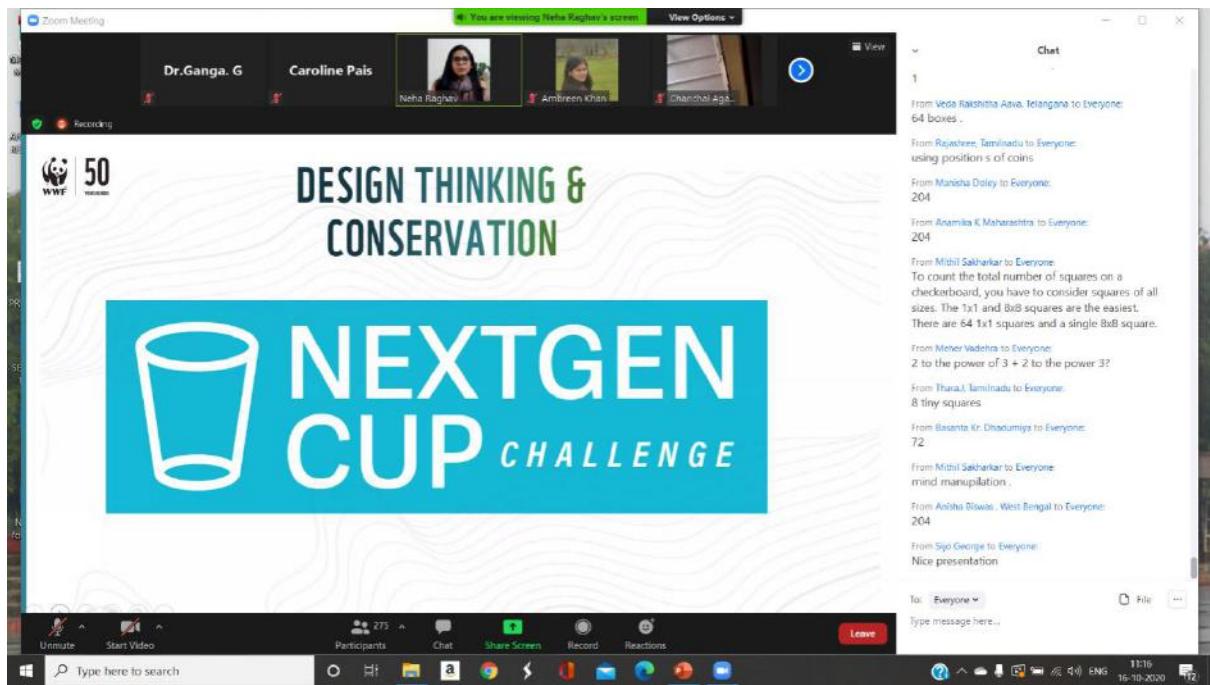
Participants: 274

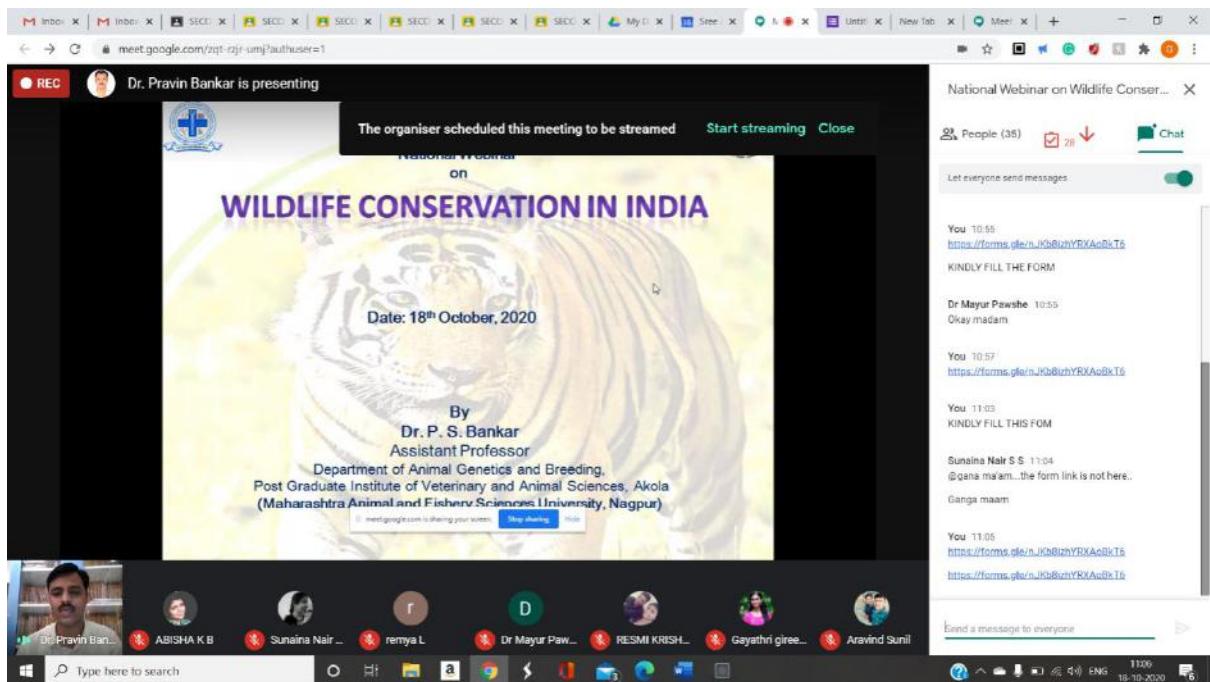
Dr. Ganga. G

Participants: 274

Leave

Unmute Start Video Participants Chat Share Screen Record Reactions

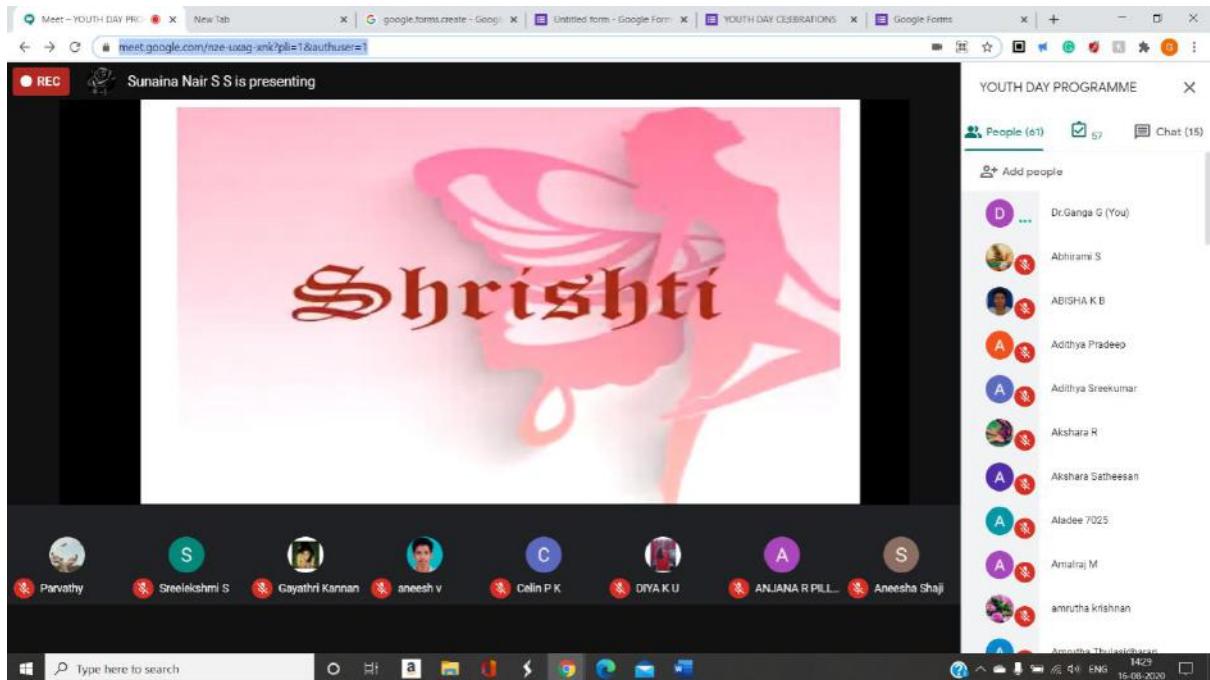


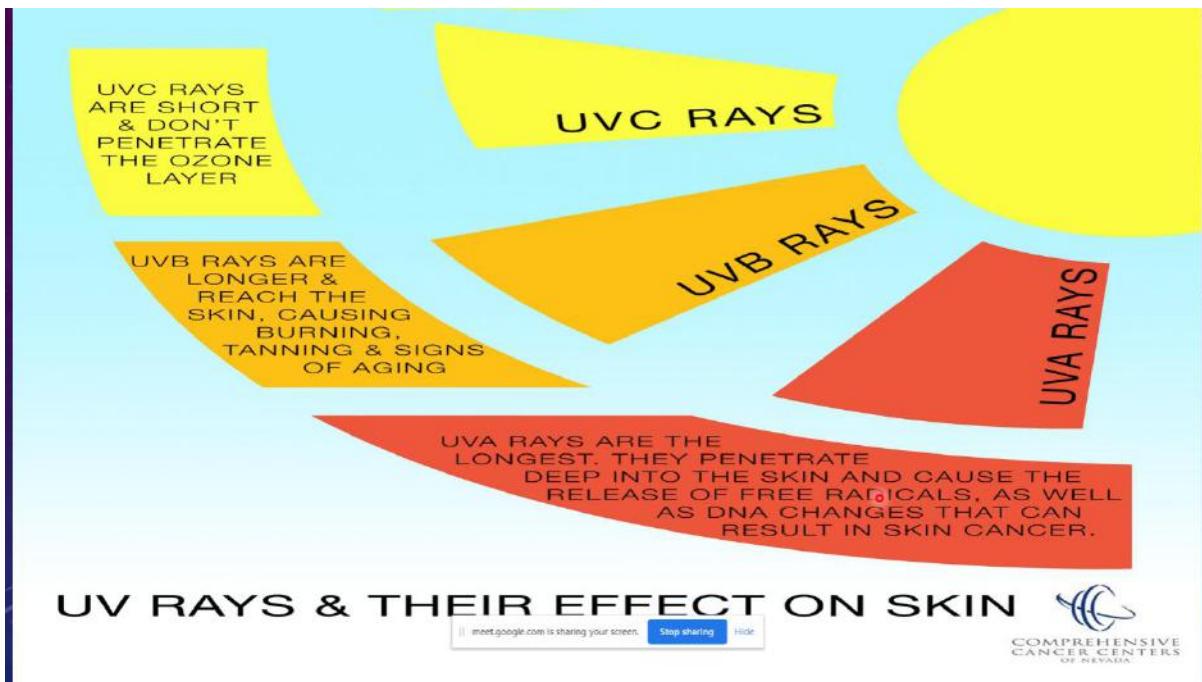


Dr.Ganga.G conducting Class on sustainable development ,ways and means

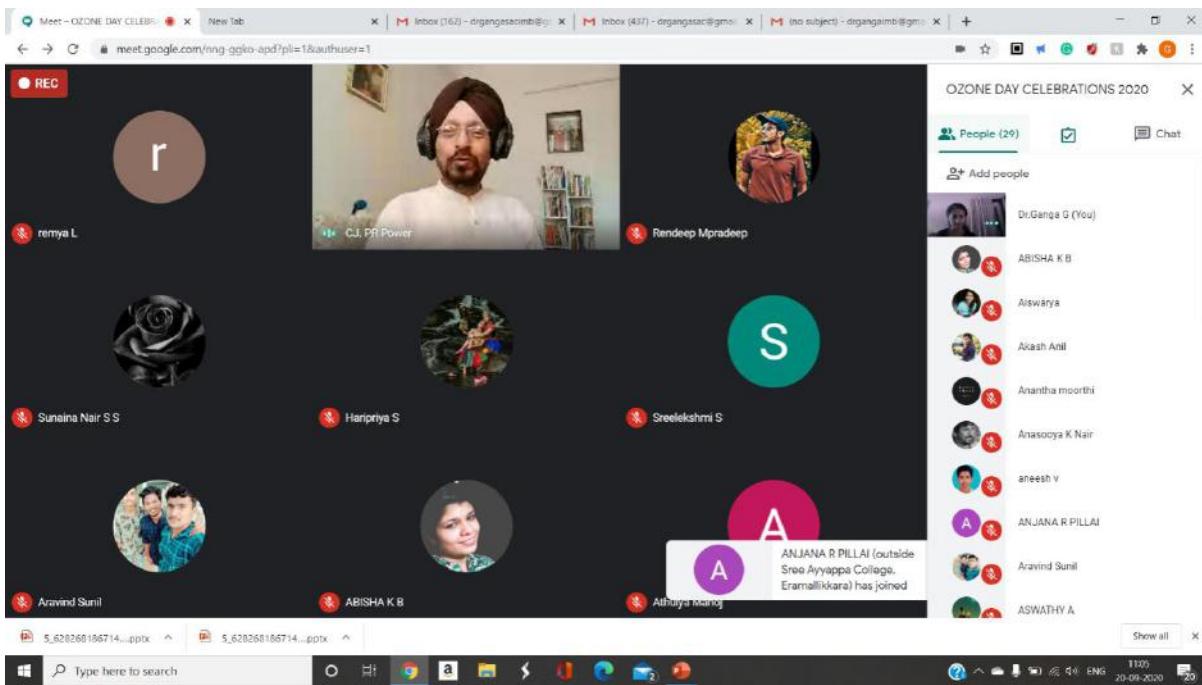
Training on Biodegradable sanitary napkins for Sustainable development

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





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

Meeting details

REC

UBA RCI is presenting

BPCL's CSR : core thrust areas

Thrust Areas

Health & Hygiene

Water Conservation

Community Development

Skill Development

Education

Meeting details

Turn on captions

UBA RCI is presenting

Send a message to everyone

People (24)

Chat

Smitha S 11:46 AM

Thank You Sir

Francina Xavier 11:46 AM

yes

Dr.Sithara Balan 11:46 AM

Thank you very much sir

Indu Nair 11:46 AM

the ppt is not seen

Indu Nair 11:48 AM

yes madam

Francina Xavier 11:48 AM

yes mam

Finser K. Muhammed 11:48 AM

Yes mam

Indu Nair 11:52 AM

the ppt is not working well

Type here to search

Meeting details

REC

People (24)

Chat

Smitha S 11:46 AM

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Indu Nair 11:52 AM

the ppt is not working well

12/05
02-10-2020

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

Meet Attendance 2020-7-20 14:00

REC

You are presenting

Jobin K Varghese and 38 more

PowerPoint Slide Show - [Magical_Mangroves_Kerala] - PowerPoint

Stop presenting

Aravind Sunil

Aravind Venukumar

Sona Viswanath

Amal kumar

Haritha kumar

AMRITHAPRIYA A

Anjali Radha has left the meeting

Manju Manjumana

Angel Mathew

Mangrove Temple, Chidambaram

WWF 50

Green

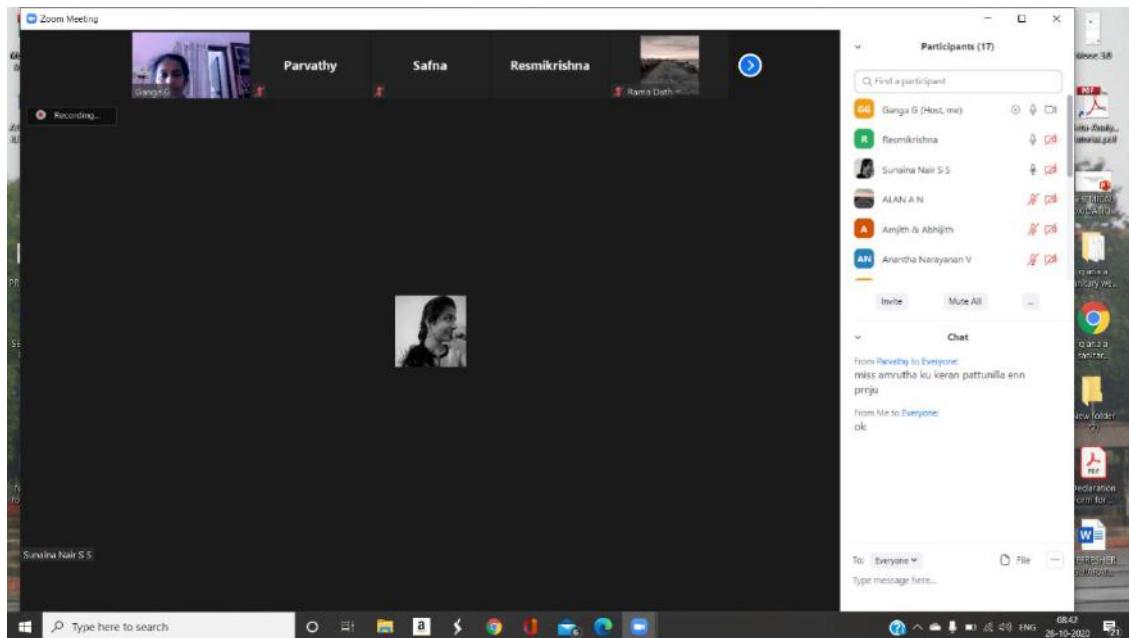
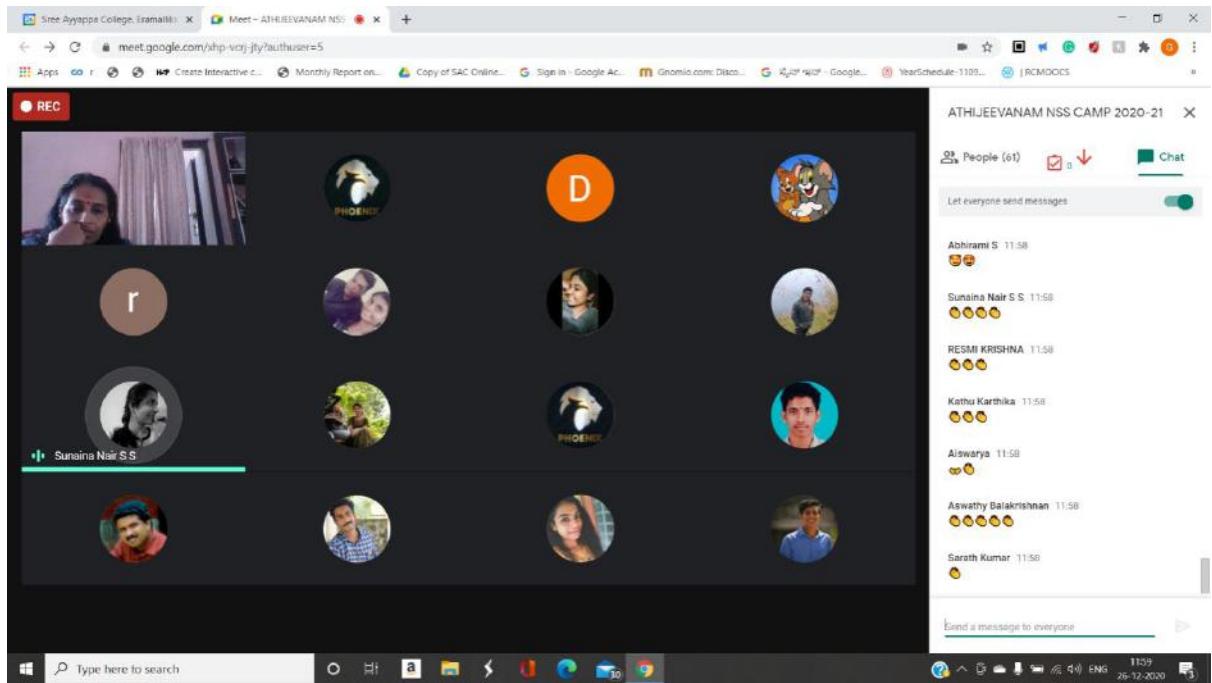
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Stop sharing

16:20
29-10-2020

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.Explain biodiversity and protection
12. Green Audit and rules
- 13.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



Coordinators

Dr.Ganga.G
Dr.Remaya,L

01/01/2021

Date



Principal

PRINCIPAL
Sre Ayyappa College (T.D.B)
K.C.P. Prakash
Tiruvanindupuram, Changannur,
Thiruvananthapuram Dist, Kerala
Alappuzha Dist, Kerala

Dept of BC and IIMB and NSS
ATTENDANCE July 20-december20
CERTIFICATE 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	A	x	x	x	x	x
Kavya.K	x	x	x	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
Divyamoi Kesavan	x	x	x	x	x	A	x	x
Silpanjali.S			x	x	x	x	x	x



Dr. Sangeetha

Dr. Preya L. Remya



	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	x
Sauganth	x	x	x	x	x	x	x	x	x
Sunaina Nair.S.S	x	x	x	x	x	x	x	x	x
AravindSunil	x	x	x	x	x	x	x	x	x
parvathy	x	x	x	x	x	x	x	x	x
Alan	x	x	x	x	x	x	x	x	x
Salini S	x	x	x	x	x	x	x	x	x
Anandha Narayan	x	x	x	x	x	x	x	x	x
Kayya.K	x	x	x	x	x	x	x	x	x
Gayathri	x	x	x	x	x	x	x	x	x
Geethu Murukesh	x	x	x	x	x	x	x	x	x
Snehapriyan	x	x	x	x	x	x	x	x	x
Divyamol Kesavan	x	x	x	x	x	x	x	x	x
Silpanjali.s	x	x	x	x	x	x	x	x	x
Alan	x	x	x	x	x	x	x	x	x
Ramadeth									

Dr. Dranga. A
Dr. Denya. L. Rungal



PRINCIPAL
P.R.N. College (T.D.B.)
P.R.N. College - 683 109
Stree, Alappuzha - 683 109
Eranallikulam, Kerala
Thiruvananthapuram Dist., Kerala
Alappuzha



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

Sri Ayurvedic College, Thrivandrum
 Thiruvananthapuram Dist, Kerala
 695 011, 695 012
 Principal: Sree Divyamol Kesavan
 Eravankulam, Changannur,
 Thrivananthapuram Dist, Kerala
 Alappuzha



Dr. Divyamol Kesavan
 Dr. Ponja. A. Remya

	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	x
Sauganth	x	x	x	x	x	x	x	x	x
Sunaina Nair.S.S	x	x	x	x	x	x	x	x	x
AravindSunil	x	x	x	x	x	x	x	x	x
parvathy	x	x	x	x	x	x	x	x	x
Sahini S	x	x	x	x	x	x	x	x	x
Anandha Narayan	x	x	x	x	x	x	x	x	x
Kavya.K	x	x	A	x	x	x	x	x	x
Gayathri	x	x	A	x	A	A	A	A	A
Geethu Murukesh	x	x	A	x	x	x	x	x	x
Shehapiyran	x	x	x	x	x	x	x	x	x
Divyamol Kesavan	x	x	A	x	x	A	x	x	x
Silpanjali.s	A	x	x	x	x	x	x	x	x
Alan	x	x	x	x	x	x	x	x	x
Ramadeth	x	x							



Dr. Deuja L. Deuja
Dr. Deuja L. Deuja

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Thiruvananthapuram, Chengannur,
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Dr. Pragya Agarwal
Dr. Pragya Agarwal



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