



SRM

INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)



सत्यमेव जयते
Ministry of Education
Government of India



UNNAT BHARAT ABHIYAN - 2.0 SWACHHATA PAKHWADA - 2021

September 1 to September 15, 2021

(FORTNIGHT CLEANLINESS DRIVE)

REPORT ON 15 DAYS PROGRAM



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

SRM Nagar, Kattankulathur - 603 203, Chengalpattu District, Tamil Nadu, India
www.srmist.edu.in

PREFACE

“So long as you do not take the broom and the bucket in your hands, you cannot make your towns and cities clean.” – Mahatma Gandhi



Dr. V. Thirumurugan

Associate Director (CL) and Nodal Officer UBA & SBM
SRM Institute of Science and Technology

If we notice, globally over a period of time, the ecological balance and the modern approach has led to equity in the society, and to overcome this drastic situation, the Government of India implemented Unnat Bharat Abhiyan which have a serious tendency to uplift and enhance the rural parts of the country. UBA is a highly challenging scheme as it allows the students and faculty of various Higher Educational Institutes to devise methods and technologies for the betterment of rural populations. Especially in the agricultural field, as 71% of India's rural population is involved in agrarian activities. UBA was initially launched by the Ministry of Human Resource Development (MHRD) in 2014 and later, Unnat Bharat Abhiyan 2.0 was launched on April 25, 2018.

Considering, **Swachhata Pakhwada** is a flagship program under the aegis of Swachh Bharat Mission to undertake the cleanliness and green drives in all segments of societal organization. Swachhata Pakhwada was introduced in the year 2016 which is a fortnight long initiative by the Hon'ble Prime Minister, Shri Narendra Modi's vision to engage all Union Ministries and Departments in Swachhata-related activities, thereby making Swachhata "everyone's business". The key goals of Swachhata Pakhwada are

1. To institutionalize cleanliness
2. To promote the Outreach inclusivity in HEIs

UBA SRM have conducted fortnight events for three successful years (2019 – 2021) on various domains and themes. On 01 -15 Sep, 2021 UBA SRM have organized

various activities such as debates, expert lectures, webinar series, workshops, poster slogan and speech competitions. Further, the UBA SRM have also invited University students and faculties for their insightful though process on conservation of water, solid waste management. This fortnight events also involved cleanliness action and maintaining ecological balance on University Campus as well 08 UBA adopted villages in term tree plantation, personal hygiene energy conservation etc.

As a nodal officer of UBA SRM and Coordinator Head of this fortnight event, the Swachhata pledge was initiated and taken by our all faculty and students at SRM IST. This will thrive to create an awareness among the community in a more systematic and effective way by adoption of best practices to make the country clean and self-sufficient. This detailed report on Swachhata Pakhwada will portray the various initiatives taken by UBA SRM for the fortnight events and thereby sensitizing the citizens on cleanliness, personal hygiene and environmental conservation

V.Thirumurugan

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13.	Wastage of Water Management Drive	
14.	Ban on single use plastics -special talk & competition	
15.	Valedictory Ceremony of “Swachhata Pakhwada 2021”	

Action Plan for Swachhata Pakhwada 2021
From 01.09.2021 – 15.09.2021

Date	Name of Activity	Action
01.09.2021 Wednesday	Pledge on Swachhata Inaugural function and Pledge will be taken online	Pledge will be taken on Swachhata by all employees/ students all Deans/Directors
02.09.2021 Thursday	Plantation of sapling (with high CO ² absorption rate) Lecture on Air Pollution	Tree plantation at all adopted villages /campuses - Dean Agri By an expert from PCB via Webinar
03.09.2021 Friday	Development and presentation of Innovative Technologies for waste recycling energy conservation etc, if any. Lecture on Innovative Technologies for waste recycling energy conservation	By an expert from SRMIIC via Webinar
04.09.2021 Saturday	Competition on Swachhata - speech, poster making, slogan writing, etc	All departments are requested to inform their students of making posters/ banners, slogan writing and participating in speech competitions about Swachhata .
05.09.2021 Sunday	Organization of cleanliness drive on campus.	All NSS students to participate in the drive 10 Volunteers from different department to go-round the campus and identify areas that needs to be clean.
06.09.2021 Monday	Online competition regarding water conservation - speech , poster making, slogan writing, etc	All departments are requested to inform their students of making posters/ banners, slogan writing and participating in speech competitions about water conservation.
07.09.2021 Tuesday	Online Talk on Swachhata - creating awareness among students on all aspects of Swachhata- personal, physical, environmental, Societal etc.	Lecture by Dean SPH (webinar)Best practice in swachhata-- personal, physical, environmental, societal
08.09.2021 Wednesday	Online competition regarding Forest conservation - speech, poster making, slogan writing etc. Lecture on Forest Conservation	All departments are requested to inform their students of making posters/ banners, slogan writing and participating in speech competitions about forest conservation. By an expert from forest dept. via Webinar
09.09.2021 Thursday	Cleanliness drive in campus/hostels - depending on COVID situation.	Participation by NSS students Faculties / staff are advised to keep their seating place clean and weeding out of the old files, records as per procedures. 10 volunteers from each department to check their departmental areas in the cleanliness of toilet/lab/classrooms, surroundings, provision of dustbin, cleanliness of ceiling fan /table chair etc. Remove unwanted /damaged materials from all places.

10.09.2021 Friday	Special stress on maintenance of kitchen, food waste management and cleanliness	Director IHM, Director Hostel - Online webinar on mess/ kitchen maintenance and reducing the food wastage and cleanliness.
11.09.2021 Saturday	Online competition “ Best out of Waste ” -creating useful items out of waste material in the surroundings	Online completion for students – Architecture dept. Certificate and prize will be given to participating students
12.09.2021 Sunday	Organization of special drive on Water conservation	Inspect well, Bore well, OHT and Sump - Audit on water requirements/ wastage/ treatment/reuse- Department of Civil Engineering Certificate will be given for best Innovative ideas for water conservation Check the rain water harvesting structures & recharge pit.
13.09.2021 Monday	Check wastage of water and take appropriate measures to rectify Online competition on best Innovative ideas to rectify the wastage of water. Barrier free access to drinking water and toilet facilities for divyang students may be reviewed and ensured	Department of Civil Engineering- Volunteered Faculties to check wastage of water in their department area pipeline /tap/watercolors and toilets Certificate will be given for best Innovative ideas to rectify the wastage of water. Check barrier free access to drinking water and toilet facilities
14.09.2021 Tuesday	Complete ban on single use plastic	Lecture on “No Single Use Plastic”- Chemical Engineering All departments are requested to inform their students for making posters/ banners, slogan writing and participating in speech competitions about the ban on single use plastic.
15.09.2021 Wednesday	Result of banner /poster competitions/ video message (poems and songs) and distribution of certificate online - Closing ceremony	Result will be declared Closing ceremony will comprise summing up of above activities, targets achieved as set forth.

Photos, video messages from students and faculty to be post on Twitter, Facebook, Instagram about the events - #swachhatapakhwada

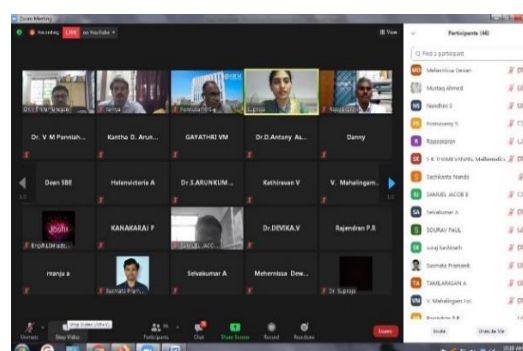
Dr. V. Thirumurugan
Associate Director (CL),
Nodal officer UBA/SBM- SRMIST

SWACHHATA PLEDGE

- Mahatma Gandhi dreamt of an India which was not only free but also clean and developed.
- Mahatma Gandhi secured freedom for Mother India.
- Now it is our duty to serve Mother India by keeping the country neat and clean.
- I take this pledge that I will remain committed towards cleanliness and devote time for this.
- I will devote 100 hours per year, that is two hours per week, to voluntarily work for cleanliness.
- I will neither litter nor let others litter.
- I will initiate the quest for cleanliness with myself, my family, my locality, my village and my work place.
- I believe that the countries of the world that appear clean are so because their citizens don't indulge in littering nor do they allow it to happen.
- With this firm belief, I will propagate the message of Swachh Bharat Mission in villages and towns.
- I will encourage 100 other persons to take this pledge which I am taking today.
- I will endeavor to make them devote their 100 hours for cleanliness.
- I am confident that every step I take towards cleanliness will help in making my country clean.

INAUGURAL CEREMONY OF “SWACHHATA PAKHWADA AND PLEDGE ON SWACHHATA - 2021” DAY-1 (01-09-2021)

SRM Institute of Science and Technology, Kattankulathur is holding Swachhata Pakhwada 2021, a fortnight-long program observed to ensure mass participation of citizens in Swachhata activities. The inauguration for the event was held on 1st September virtually. About 60 members, including Deans, Directors, faculty members and students, participated in this initiative.



Dr. P. Supraja, from Swachhata organizing team gave a short note on the Institute's action plan towards Swachhata Pakhwada 2021. The welcome address was delivered by Dr. T. Rajasekaran, professor from Mechanical Engineering and NSS Coordinator of SRMIST. Registrar of SRMIST Dr. S. Ponnusamy gave the presidential address and shared valuable information about the Swachhata initiative in the campus. Director (IHM) Dr. D. Antony Ashok Kumar shared his own experience and importance of swach movement in the felicitation note.

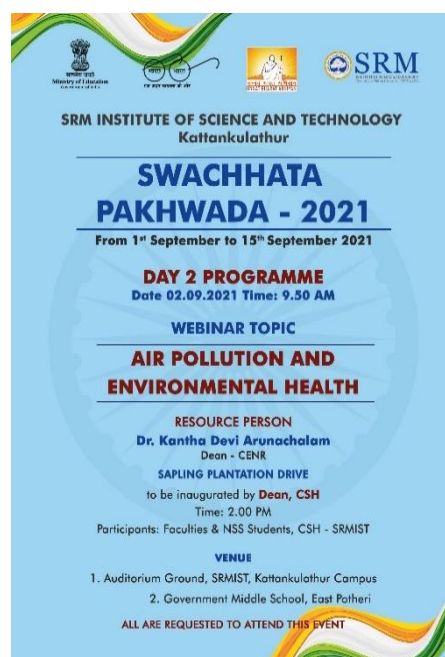
Dr. V. M. Gayathri from Swachhata organizing team delivered the pledge to devote towards 'Swachhata' of our motherland and all the dignitaries and participants have taken an oath for the same. Associate Director (Campus Life) & Nodal Officer for Unnat Bharat Abhiyan Dr. V. Thirumurugan thanked all the dignitaries and participants who took part in the inaugural ceremony.



Swachhata Pakhwada 2021, as a part of Swachh Bharat Abhiyan launched by Government of India, is a fortnight-long program observed to ensure mass participation of citizens in Swachhata activities and to transform Swachh Bharat into a citizen's movement. MHRD has directed all educational institutions to take part in Swachhata Pakhwada 2021 and to set the tone and pace for the Swachhata movement in the country.

TREE PLANTATION & WEBINAR ON AIR POLLUTION AND HEALTH - DAY 2 (2-09-2021)

SRM Institute of Science and Technology is so proud to celebrate Swachhta Pakhwada 2021 for 15th days from 1st to 15th September 2021. Day 2 (02-09- 2021) Tree saplings plantation drive was carried out by Students of NSS, staffs and faculty of SRM IST in campus and government school located in East Potheri. followed by Webinar Programme conducted on topic Air pollution and environmental health at 9.50 AM through zoom meeting to create awareness to students and Faculty members

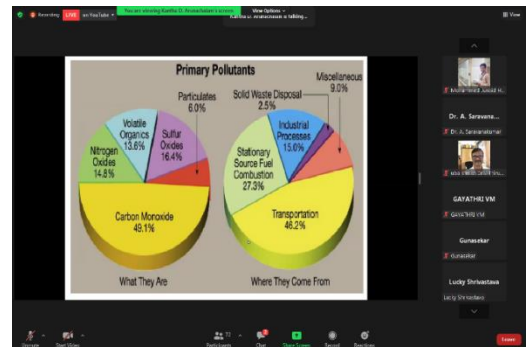
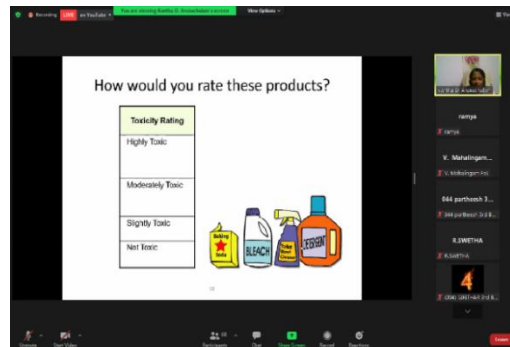
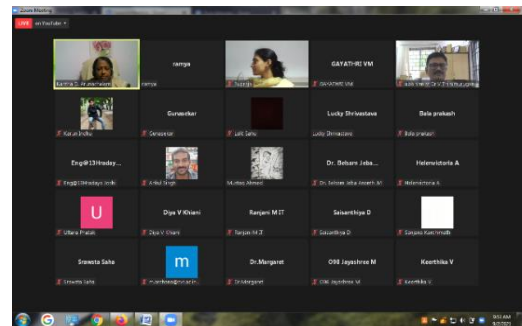
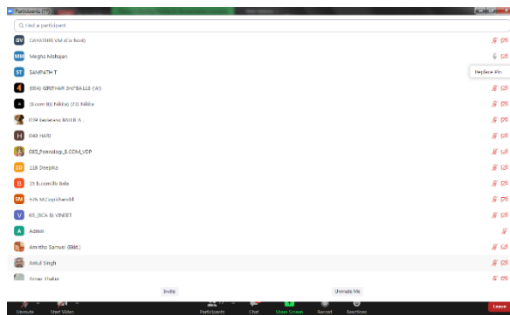


The meeting started with Honouring guest by Dr.V.Thirumurugan, Associate Director Campus Life, & Nodal officer swatch Bharat Mission and Unnat Bharat Abhiyan, Following that a brief introduction about the guest speaker was given by Dr.V.M.Gayathri, Assistant Professor, Department of Networking and Communications. Later the session hand over to guest speaker for keynote address.



The guest Speaker Dr. Kantha Devi Arunachalam, Dean CENR. She delivered detailed insight on Air pollution and Environment health and discussed on various issues, barriers, and Prevention methods. In total 90 to 100 participants actively participated in this webinar and complete the feedback form shared during the end of the session. The meet successfully ends with the Thank you note delivered by Dr.V.M.Gayathri, Assistant Professor, Department of Networking and Communications SRMIST.





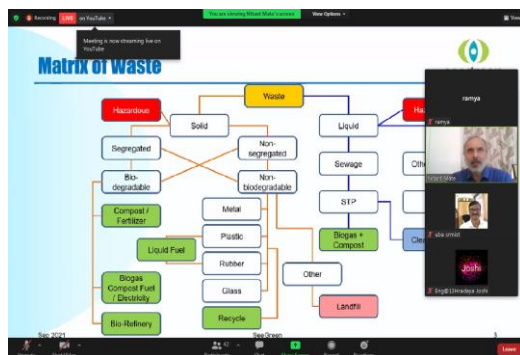
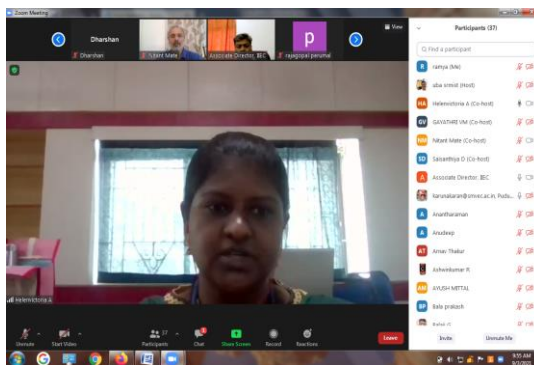
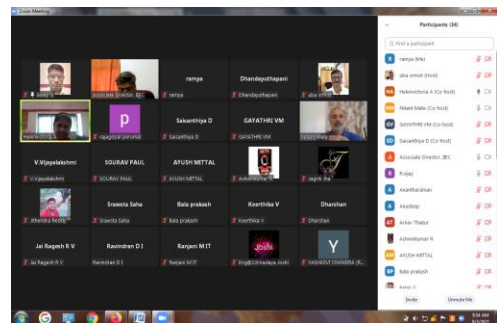
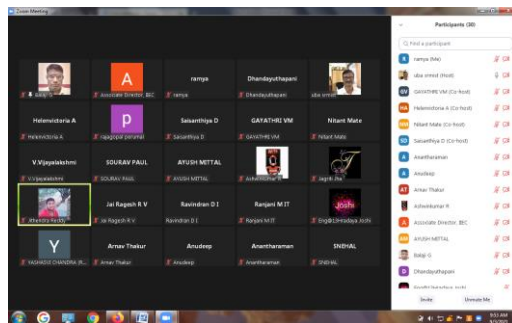
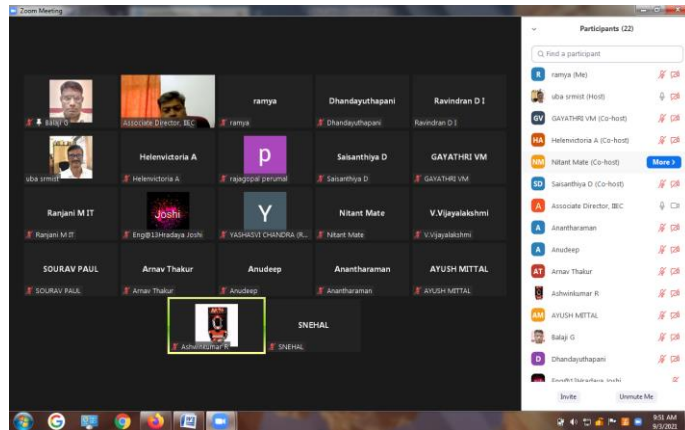
WEBINAR ON-INNOVATIVE TECHNOLOGIES FOR WASTE RECYCLING AND ENERGY CONSERVATION -DAY (03-09-21)

SRM Institute of Science and Technology is so proud to celebrate Swachhta Pakhwada 2021 for 15th days from 1st to 15th September 2021. Day 3 (03-09- 2021) Webinar Programme conducted on topic "**Innovative Technologies for Waste Recycling and Energy Conservation**" at 9.50 AM through zoom meeting to create an Awareness to students and Faculty members



The meeting started with Honouring guest by Dr.V.Thirumurugan, Associate Director Campus Life, & Nodal officer swatch Bharat Mission and Unnat Bharat Abhiyan, Following that a brief introduction about the guest speaker was given by Ms. A. Helen Victoria , Assistant Professor, Department of Networking and Communications. Later the session was handed over to guest speaker for keynote address.

The guest Speaker Dr. Nitant Vishnu Mate, Director, SeeGreen Products Private Limited. He delivered detailed insight on Innovative Technologies for Waste Recycling and Energy Conservation and discussed on Energy, Water and Waste management and sustainable solutions for the same. He also discussed about the existing challenges about the Conservation of Energy. Dr. Shantanu Patil, Associate Director, IIEC, SRMIST also thanked the speaker for his thought-provoking speech. In total around 50 participants actively participated in this webinar and complete the feedback form shared during the end of the session. The meet successfully ends with the Thank you note delivered by Ms.A.Helen Victoria, Assistant Professor, Department of Networking and Communications SRMIST.



Typical MSW in India (Source: BIS 15)

Region/City	MSW (TPD)	Compostable (%)	Recyclable (%)	Inert (%)	Miscellaneous (%)	Cal. Value (MJ/kg)	Cal. Value (kcal/kg)
Mumbai	51,452	50.86	18.29	32.82	48	6.4	1,528
Other cities	2,723	51.91	19.25	28.86	49	6.7	2,084
East India	380	50.41	21.44	28.15	48	9.8	2,341
North India	6,835	53.38	16.74	30.85	49	6.6	1,623
South India	2,343	53.41	17.82	28.87	51	7.6	1,897
West India	380	50.41	21.44	28.15	48	9.8	2,341
Overall Urban India	1,30,000	51.3	17.48	31.21	47	7.3	1,791

Rapid urbanization is driving the increase in waste and also creating allied problems

Waste Management

- Waste is misplaced Wealth
- Segregation at source
- Recycling / Upcycling
- Conversion to value added products
- Conversion to fuel
- Waste to energy
- Measurement, tracking, characterization, analysis, penalty and bonus
- Training waste workers, technicians, policy makers and public

SeeGreen

Understanding the Linkages

Holistic Approach requires Requires Paradigm Shifts

- Growth → Development
- Consumption → Conservation
- Waste Treatment → Waste Reduction
- Energy Efficiency → Demand Reduction
- Fossil Fuels → Renewable Energy
- Upfront Cost → Life Cycle Carbon Footprint

SeeGreen

Developing Waste Minimization Program

SeeGreen

MSW to CBM → Waste to Fuel / Energy

SeeGreen

Hazardous Waste Treatment using Solar Energy

SeeGreen

Sar-Kshi-2 for Homes

SeeGreen Sar Kshi-2: 2 m³ per day biogas plant

- Knocked down kit type
- Can provide biogas and light
- Feed: Cow dung / food waste / select agro waste
- About 20 – 25 kg food waste per day
- Approx. 2 m³ per day biogas plant
- Replaces Kerosene, Wood or LPG
- Eco-friendly, Smokeless cooking system: improves health of women

SeeGreen

Innovations in Projects & Execution

SeeGreen

Biogas Challenges → Need to Innovate

- Reliability of input waste (quality and quantity)
- Seasonality of raw material availability
- Waste pre-processing equipment failure
- Digester designs to handle multiple types of feedstock
- Biogas cleaning and upgrading equipment efficiencies
- Solid liquid separation technologies
- Development of value added products using the digestate liquid
- Seasonality of the fertilizer markets
- Marketing of solid and liquid fertilizers
- Availability of finance at reasonable interest rates

SeeGreen

Waste Vegetable Oil & Animal Fat → Biodiesel

SeeGreen

Waste Vegetable Oil & Animal Fat

SeeGreen

Hazardous Waste Treatment using Solar Energy




Graph for Bendi, Monocrotophos, LDH, Dieldrin, DDT, Aldrin, Endosulfan, and Dieldrin.

Solar Still for used Hypodermic Syringes (Courtesy IT Power India)

May 2021


seegreen

GATATHI VM

Helenevictoria A

Associate Director, IBC

Hazardous Waste Incineration using Bioenergy



Modified Dewarford Design for Biomass based Small-Scale Incinerator for used Hypodermic Syringes

Courtesy IT Power India

May 2021

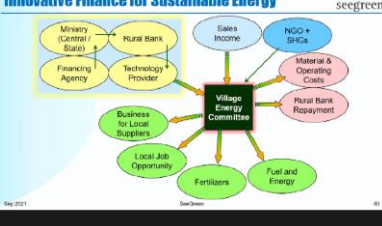
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GATATHI VM

Helenevictoria A

Associate Director, IBC

Innovative Finance for Sustainable Energy



Ministry (Central / State) → Rural Bank → Sales Income → NGO + SHGs → Material & Operating Costs → Rural Bank Repayment → Fuel and Energy → Fertilizers → Local Job Opportunity → Business for Local Suppliers → Technology Provider → Franchising Agency → Village Energy Committee

May 2021

seegreen

GATATHI VM

Helenevictoria A

Associate Director, IBC

On Way to Sustainability ...



Sun → Energy from Biomass → Sustainable Cycle for Biomass to Energy → Organic Carbon & Micro Nutrients reaching back to the soil

Thank you

May 2021

seegreen

GATATHI VM

Helenevictoria A

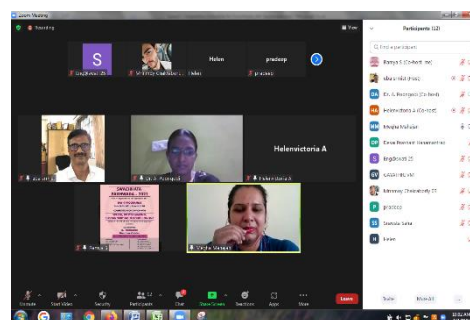
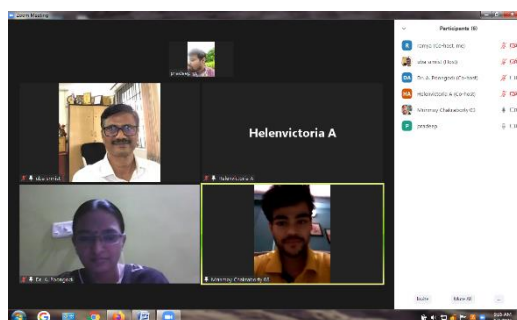
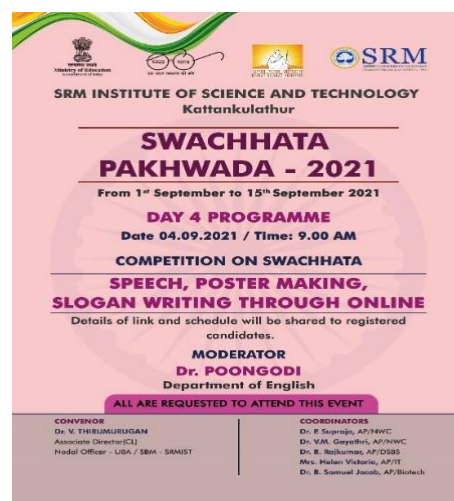
Associate Director, IBC

COMPETITION PROGRAMMES ON “SWACHHATA”

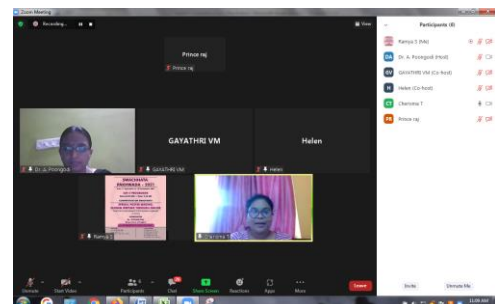
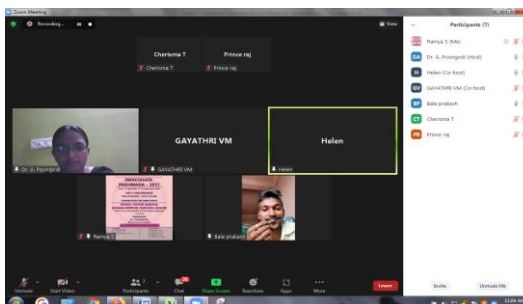
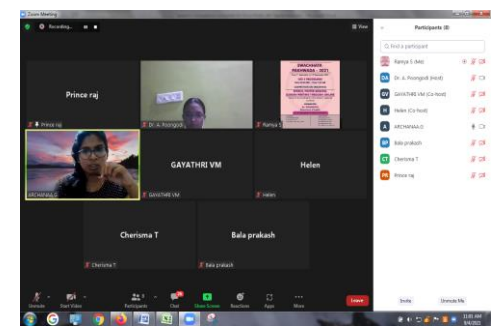
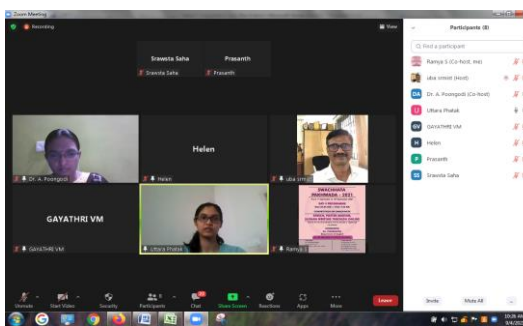
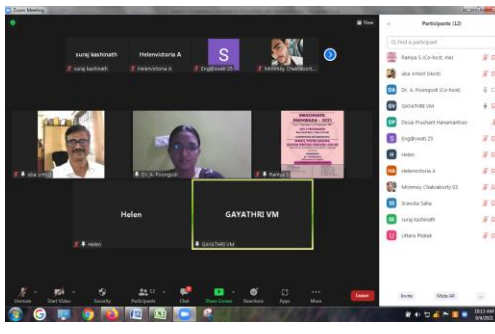
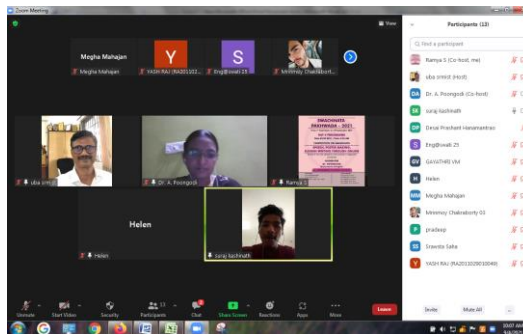
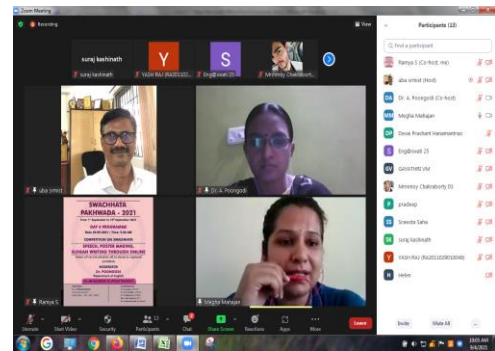
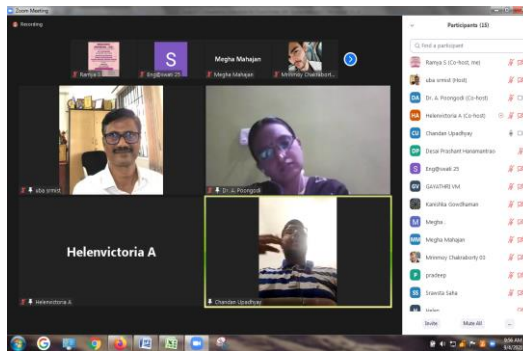
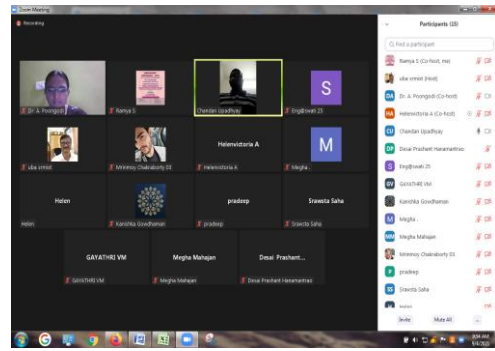
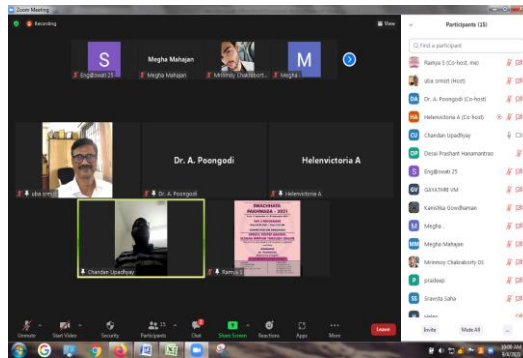
(Slogan writing, Poster making and Speech)

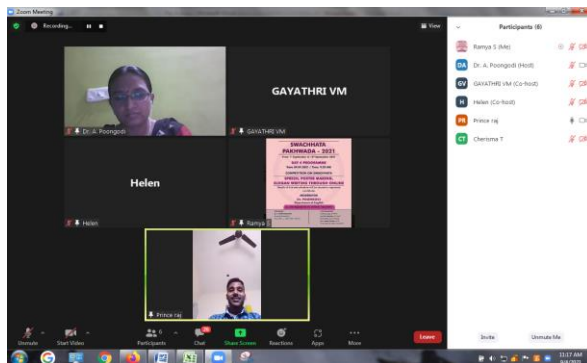
DAY-(04-09-21)

SRM Institute of Science and Technology, Kattankulathur and Unnat Bharat Abhiyan (UBA-SRM IST) organized a series of competition on SWACHHATA through virtual mode that includes speech, slogan writing and poster making under SWACHHATA PAKHWADA – 2021 on 04.09.2021, 9 am. Dr.V.Thirumurugan (Associate Director (CL) and Nodal Officer (UBA-SRMIST) has welcomed the participants for this activity and Dr. A. Poongodi, Faculty of Department of English has acted as a moderator.



There were about 11 participants who got enlisted in this activity and judged jointly by the Nodal officer Dr.V.Thirumurugan, Dr.Helen Victoria and Dr.A.Poongodi. The students during the programme have come out with slogans like “Swachhata is a way of life” “Swachh Bharat Safe Bharat” “Swachh Bharat Green Bharat” “Swachh Zindabab Bharat Zindabad” “Swachh Karo Corona Hatao” etc. Followed by students actively took part on the speech competition in which they delivered the talk on different aspects of Swachh to build a clean and hygiene nation. Finally, the best slogans, poster and speech awards were given to the candidates who excelled in the activity.





The event was coordinated by Dr.P.Supraja, Dr.V.M.Gayathri, Dr. R.Rajkumar,. Helen Victoria and Dr. Samuel Jacob. The meeting ended with the vote of thanks from Mrs.Helen Victoria

CLEANLINESS DRIVE ON CAMPUS & PLOGGING –DAY (05-09-21)

SRM Institute of Science and Technology, Kattankulathur and Unnat Bharat Abhiyan (UBA-SRM IST) organized a cleanliness drive on campus & plogging (walking/jogging with picking up of litters that come along) under SWACHHATA PAKHWADA – 2021 on 05.09.2021, 10 am. Dr.V.Thirumurugan (Associate Director (CL) and Nodal Officer (UBA-SRMIST) has welcomed the participants for this activity.



The event was inaugurated by Dr. M.Vairamani (Dean-School of Bioengineering). In his inaugural speech, he put forth the Mahatma Gandhiji's vision on importance of cleanliness of the country. As a citizen of the country everyone has the responsibility of keeping the streets and the public places clean. This present pandemic situation have enforced all of us to adapt clean and hygienic lifestyle at the same time not to forget about the safer disposal of gloves and masks.



He added the importance of wearing masks by the public could drastically reduce the COVID infection rate that has been scientifically studied and proven. Dr.Samuel Jacob (Assistant Professor, Biotechnology) has delivered a speech on the motto of the SWACHHATA PAKHWADA and SRMIST being the First Rank holder of AICTE green Campus Award 2020, it is our responsibility to create awareness among the public and the students about the importance of the cleanliness through this plogging activity.



There were about 25+ participants that included students, faculty, non-teaching staffs and sanitation workers involved in this cleanliness drive on campus & plogging.



COMPETITION ON THEME "WATER CONSERVATION"

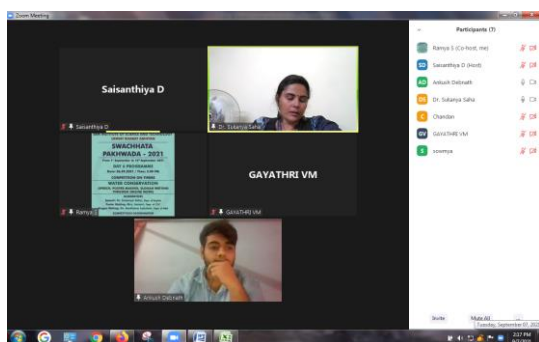
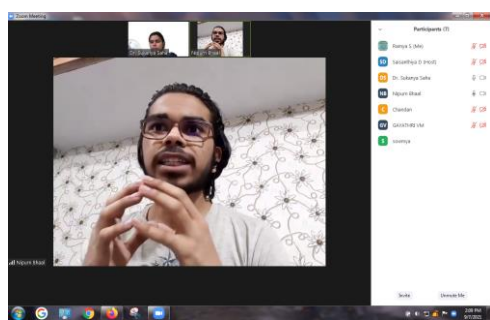
(Slogan writing, Poster making and Speech)

DAY – (06-09-21)

SRM Institute of Science and Technology is so proud to celebrate Swachhta Pakhwada 2021 for 15 days from 1st to 15th September 2021. Day6 (06-09-2021) Speech Competition was conducted on Theme "**Swachhata**" through zoom meeting to create an Awareness to students.



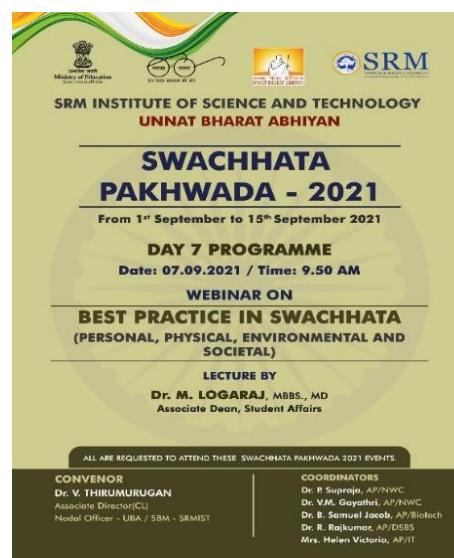
The meeting started with Honouring the moderator by Dr.V.Thirumurugan, Associate Director Campus Life, & Nodal officer swatch Bharat Mission and Unnat Bharat Abhiyan, following that a brief introduction about the moderator was given by Ms. D. Sai Santhiya , Assistant Professor, Department of Networking and Communications. Later the session was handed over to the participants for sharing their views on Water Conservation. In total, around 20participants gave their speech on the given theme. Participants shared their awareness, understanding and importance of conserving water. They also spoke about the conservation of water in the commercial sector like agriculture, the use of sprinklers and modern methods of harvesting can save a lot of water as compared to traditional method and Industries should try to reuse and recycle the water, rather than just discharging the used and dirty water in the lakes and rivers around. Further, they added up with planting trees will help us as they bind the soil and bring on the rainfall. Dr. Sukanya Saha, Assistant Professor, Department of EFL, SRMIST has done an excellent job of not only being a moderator but also motivating the participants to convey their views. The meet successfully ended with the Thank you note delivered by Ms. D. Sai Santhiya, Assistant Professor, Department of Networking and Communications SRMIST.



TALK SHOW ON BEST PRACTICE IN SWACHHATA-- PERSONAL, PHYSICAL, ENVIRONMENTAL AND SOCIETAL

DAY-(07-09-20)

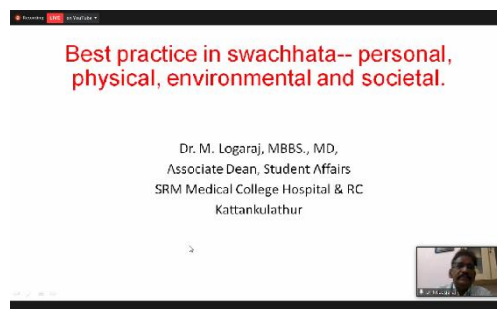
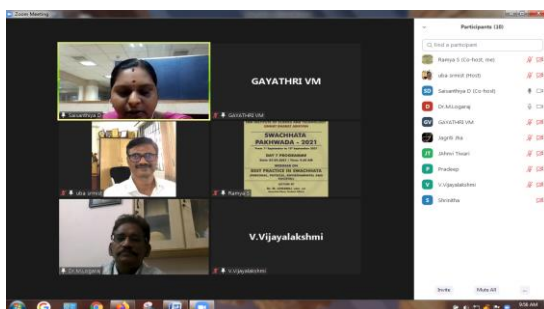
SRM Institute of Science and Technology is so proud to celebrate Swachhta Pakhwada 2021 for 15th days from 1st to 15th September 2021. Day 7 (07-09- 2021) Webinar Programme conducted on topic " Swachhata - Best practice in swachhata-- personal, physical, environmental and societal " at 9.50 AM through zoom meeting to create an Awareness to students and Faculty members



The meeting started with Honouring guest by Dr.V.Thirumurugan, Associate Director Campus Life, & Nodal officer swatch Bharat Mission and Unnat Bharat Abhiyan, Following that a brief introduction about the guest speaker was given by Ms. D.Saisanthiya , Assistant Professor, Department of Networking and Communications. Later the session was handed over to guest speaker for keynote address.

The guest Speaker Dr. Logaraj, Director, MBBS., MD, Associate Dean, Student Affairs. He delivered detailed insight on Cleanliness and discussed on all aspects of Swachhtha-Personal, Physical, Environmental and societal. He also discussed best practices to take for cleanliness for preventing from diseases like covid. In total around 50 participants actively participated in this webinar and complete the feedback form shared during the end of the session.

Introduction about the guest speaker by co-ordinator D.Saisanthiya



Talk by Dr. Logaraj, Associate Dean, Student Affairs, on theme “Swachhtha- Personal, physical, Environmental, societal, etc.

Goals of Swachhtha

1. To institutionalize cleanliness or Swachhtha as an integral part of the functioning of educational institutions.
2. To set the tone and pace for Swachhtha movement in the country with the huge outreach and knowledge base of HEIs.
3. To galvanise HEIs into introspection and appraisal of their campus cleanliness and to stimulate corrective action to achieve higher benchmarks.
4. To transform HEIs into models of environmental consistency, conforming to various factors of ecological balance in their daily functioning.
5. To contribute positively to attain SDGs related to environment and health
 - a. Goal 3 : Good Health & Well Being
 - b. Goal 6 : Clean Water & Sanitation
 - c. Goal 7 : Affordable & Clean Energy
 - d. Goal 11 : Sustainable Cities and Communities



Personal Hygiene

கந்தை ஆளவும் கசக்கிக் கட்டு, கூழ் ஆளவும் குளித்துக் குடி

சுத்தம் சோறு போடும்,



6 Things to Know About Personal Hygiene



According to Census 2011, the Urban Slum figures:

- ✓ 68 million people live in slums.
- ✓ 34% have no toilets at their homes.
- ✓ 63% own mobile phones.
- ✓ 44.3% have open drainage in slums.
- ✓ 1,88,500 tones of waste generated by India per day.
- ✓ 68.8 million tones of waste generated by India per year.
- ✓ 8,500 tones waste generated by Delhi per day.
- ✓ 0.2-0.6 kg garbage generated per head per day in India.



"புறத்தூய்மை நீராண் அமையும் அகத்தூய்மை வாழ்மையால் காணப்படும்"



Protects our water

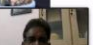
- ❖ Water Quality Criteria and Standards.
- ❖ Purification of Water Supply.
- ❖ Water (Prevention and Control of Pollution) Act- 1974.
- ❖ National Water Supply and Sanitation Programme 1954.

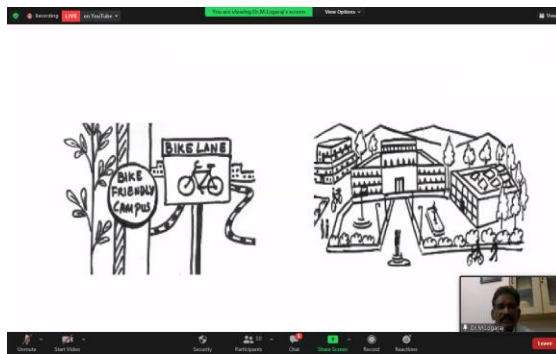


Land pollution



Protect our land





Protects our air

- ❖ The Air (Prevention and control of Pollution) Act 1981.
- ❖ Air Pollution Monitoring.
- ❖ National Air Quality Monitoring Programme 1990.



Air pollution



Responds to disasters



- ❖ Emergency Medical Relief Wing
- ❖ Prevention of communicable diseases
- ❖ Basic sanitation and Personal hygiene
- ❖ Vaccination and Vector control
- ❖ Rehabilitation

Protects us from communicable diseases



Communicable Disease Protection

- ❖ Universal Immunization Programme
- ❖ Vector Borne Disease Control Programme
- ❖ National Anti-Malaria Programme
- ❖ National Filaria Control Programme
- ❖ National Leprosy Eradication Programme
- ❖ RNTCP
- ❖ National AIDS Control Programme


Promotes good nutrition



Promotes exercise and recreation



Provides health education for behavior change



What do these busy people have in common?

They all got tested for colorectal cancer. If they have time, so do you.

Promotes adequate and safe housing



Inform, educate, and empower people about health issues



Mobilize community partnerships to identify and solve health problems



Develop policies and plans that support individual and community health efforts



Be the Change You wish to see in the world - Mahatma Gandhi



COMPETITIONS ON THEME "FOREST CONSERVATION"

(Slogan writing, Poster making and Speech)

DAY – (08 -09-21)

Day 8 (08-09- 2021) Speech Competition was conducted on Theme "**Forest Conservation**" at 9.00 AM through zoom meeting to create an Awareness to students.



The meeting started with Honouring guest by Dr.V.Thirumurugan, Associate Director Campus Life, & Nodal officer swatch Bharat Mission and Unnatbharat Abhiyan, Following that a brief introduction about the guest speaker was given by Ms.V.Vijayalakshmi, Assistant Professor, Department of Networking and Communications. Later the session was handed over to guest speaker for keynote address.

The guest Speakers are **Dr. Kothai Seshathri, Professor of Agroecology, SRM College of Agricultural Sciences, Dr.S.Geetha, Associate Professor of Agroecology, SRM College of Agricultural Sciences.** They delivered detailed insight on forest, importance, challenges and also on the conservation of Forest. They also discussed best practices to take for conservation of forests and how it helps in absorbing the pollution. In total around 40 participants actively participated in this webinar and complete the feedback form shared during the end of the session.

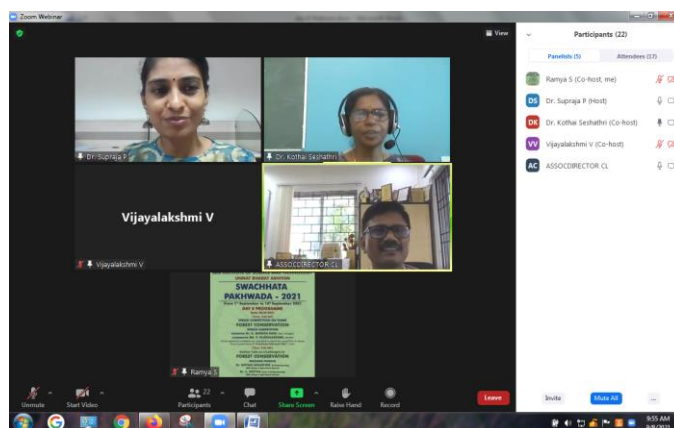
The meeting started with honouring the moderator by Dr.V.Thirumurugan, Associate Director Campus Life, & Nodal officer swatch Bharat Mission and Unnatbharat Abhiyan, following that a brief introduction about the moderator was given by Ms.V.Vijayalakshmi, Assistant Professor, Department of Networking and Communications. Later the session was handed over to the participants for sharing their views on Forest Conservation. In total, around 12 participants gave their speech on the given theme.

Participants shared their awareness, understanding and importance of conserving forest. Dr. B. Monica Nair, Assistant Professor, Department of English, SRMIST has done an excellent job as a moderator for the speech competition.

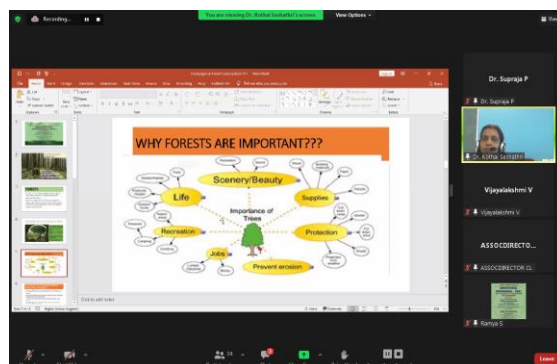
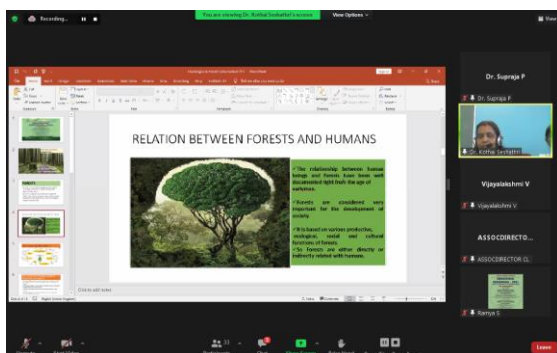
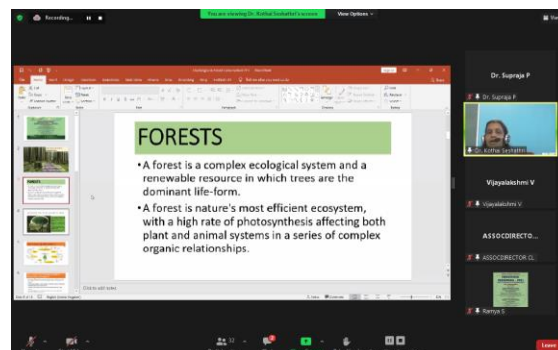
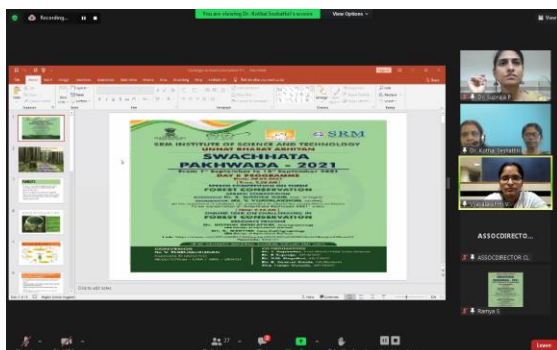
Slogan and poster making competition on Theme “Forest Conservation” was also conducted through online. Poster making was judged by Ms. N. Deepa, Department of E&I and Slogan writing was judged by Dr. K. Santhana Lakshmi, Department of MBA respectively.

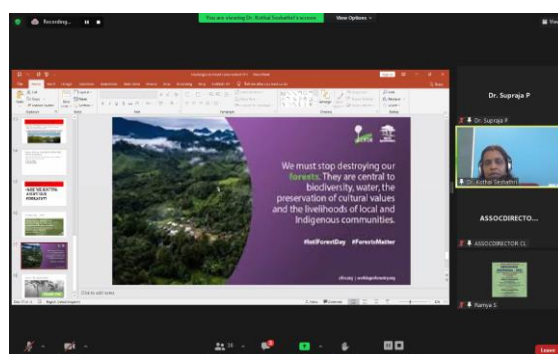
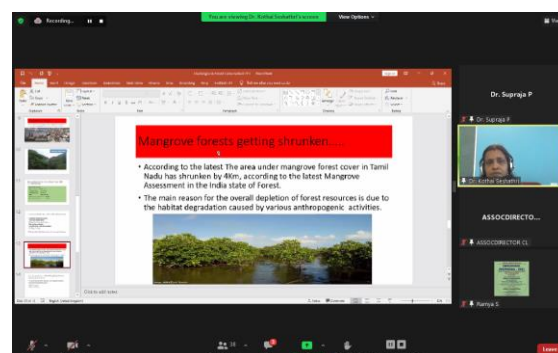
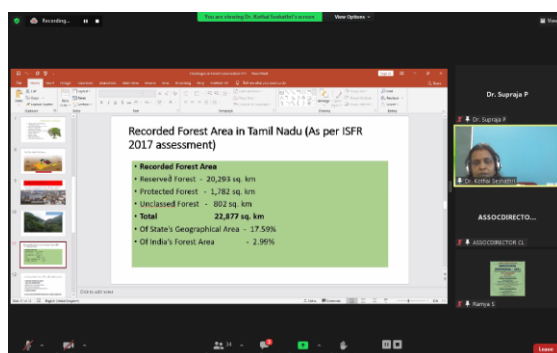
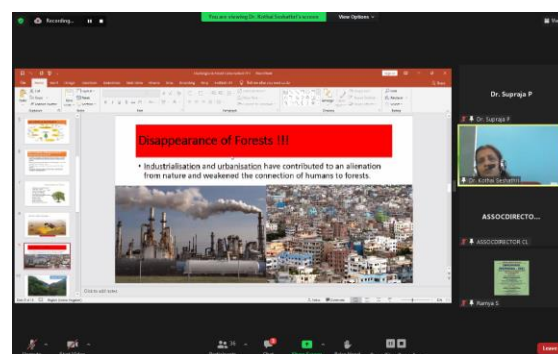
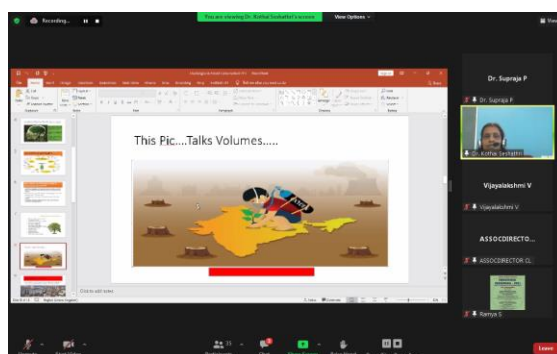
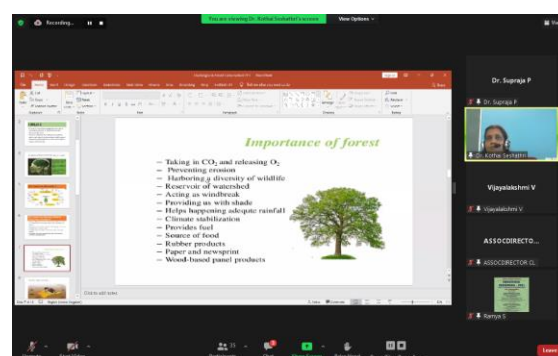
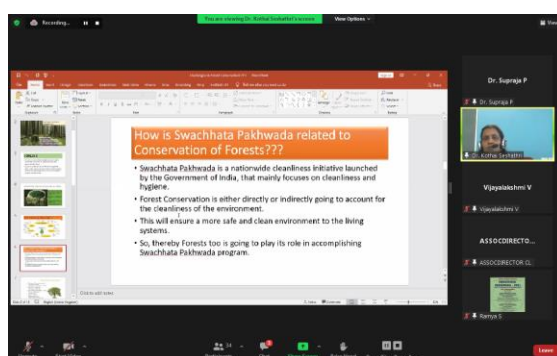
The meet successfully ends with the Thank you note delivered by V.Vijayalakshmi, Assistant Professor, Department of Networking and Communications, SRMIST.

Introduction about the guest speaker by co-ordinator V.Vijayalakshmi



Talk by Dr.S.Geetha, Associate Professor of Agroecology, SRM College of Agricultural Sciences, on theme “Forest Conservation”





Talk by Dr. Kothai Seshathri, Professor of Agroecology, SRM College of Agricultural Sciences, on theme “Challenges in Forest Conservation”.

The following table summarizes the content of the presentation slides shown in the screenshots:

Slide Title	Key Content
Challenges in Forest Conservation	Dr. Kishor Subbaraj, Professor of Systematics, 187N College of Agricultural Sciences, 187N University of Science and Technology, Bhopal, India.
Challenges- Increasing Carbon dioxide	Bar chart showing CO2 levels (ppm) from 1958 to 2021. Data: 1958 (315 ppm), 1963 (325 ppm), 1980 (339 ppm), 1993 (354 ppm), 2013 (395 ppm), 2021 (414 ppm).
Climate Change	Line graph showing Global temperature anomalies (°C) from 1880 to 2020. Data: 1880 (-0.4°C), 1900 (-0.2°C), 1920 (0.0°C), 1940 (0.2°C), 1960 (0.4°C), 1980 (0.6°C), 2000 (0.8°C), 2020 (1.0°C).
Coastal cities	Map of India highlighting coastal cities: Chennai, Kochi, Kakinada, Machilipatnam, Mumbai, and Belgaum.
Global challenges	Text: Frequent cyclones, Tidal waves, Floods, Drought.
Pollution	Text: Automobiles?, Agriculture?, Forests.
Bio diversity loss	Images of forest fires and deforestation.
Mangrove Forests	Image of a mangrove forest.

Recording...

Dr. Konda Suresh Kumar

View Options

Mangrove Forests Coastal Wetlands

In Tamil Nadu the mangrove forests-Cuddalore, Nagapattinam, Pudukottai, Ramanathapuram, Thanjavur, Thiruvallur, Thiruvannamalai and Tuticorin districts.

ASSOCIATOR...
ASSOCIATOR CL
Ranga S

Mangrove Forests Coastal Wetlands

The mangrove forest at Pichavaram and Muthupet are of great importance to Tamilnadu because of their immense regulating services and buffering action during the climatic aberrations.

ASSOCIATOR...
ASSOCIATOR CL
Ranga S

Participants: Start Video, Chat, View Screen, Raise Hand, Pause/Stop Recording, Leave

Recording...

Dr. Konda Suresh Kumar

View Options

Pichavaram - Fish and Crab

Breeding ground for Fish and Crab

ASSOCIATOR...
ASSOCIATOR CL
Ranga S

Mangrove Forest - Pollution

Estimated that $1454 \text{ Mg CO}_2/\text{ha/yr}$ is released from top 1 Metre soil of mangrove which is converted for cattle pasture

ASSOCIATOR...
ASSOCIATOR CL
Ranga S

Participants: Start Video, Chat, View Screen, Raise Hand, Pause/Stop Recording, Leave

Recording...

Dr. Konda Suresh Kumar

View Options

Mangrove Forests-Climate Mitigation

ASSOCIATOR...
ASSOCIATOR CL
Ranga S

Challenges- Exploitation of ecosystem Services

- Rainfall
- Clean Air
- Flood control
- Healthy soil
- Underground water
- Wood
- Food
- Medicine

ASSOCIATOR...
ASSOCIATOR CL
Ranga S

Participants: Start Video, Chat, View Screen, Raise Hand, Pause/Stop Recording, Leave

Recording...

Dr. Konda Suresh Kumar

View Options

Conservation of Forests

Planting Trees

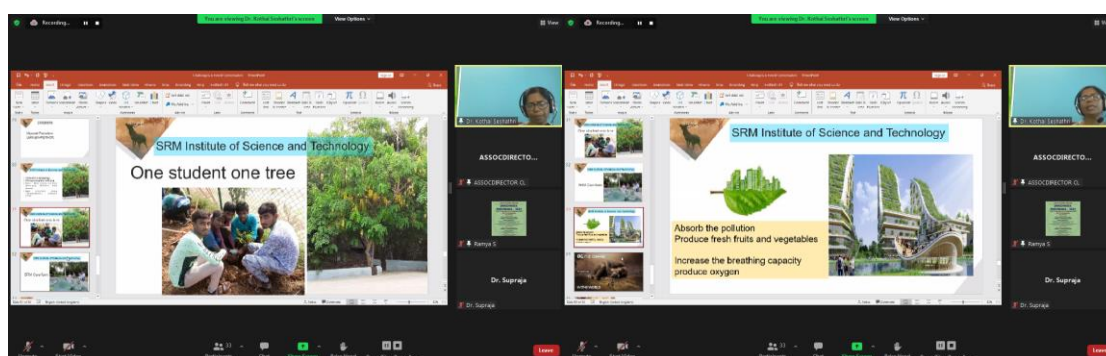
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SRM Institute of Science and Technology

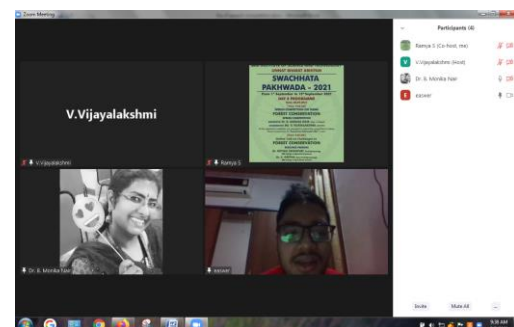
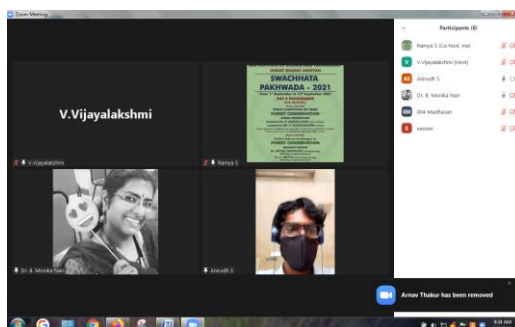
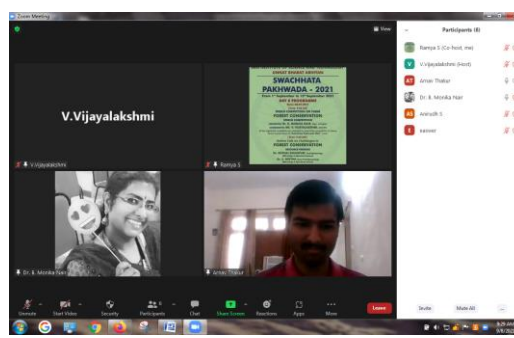
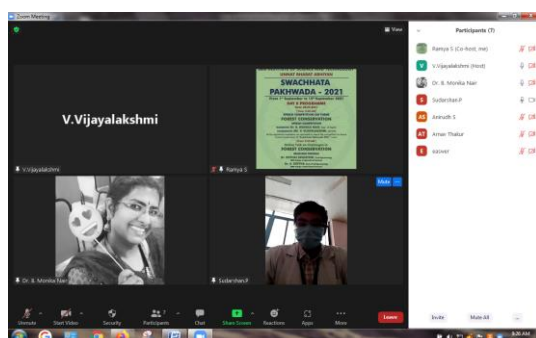
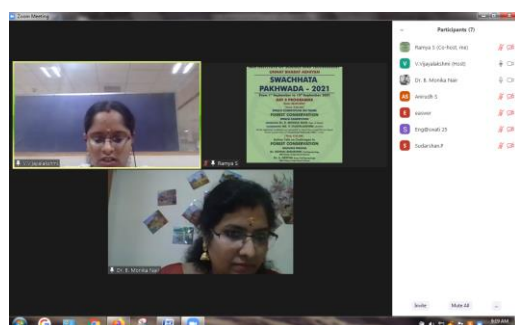
- ✓ Introduction to Agroecology
- ✓ B.Sc Agriculture and Horticulture
- ✓ Focus - Food security and Food Sovereignty -Nutritional Food Security
- ✓ Fight malnutrition among economically under privileged people

ASSOCIATOR...
ASSOCIATOR CL
Ranga S
Dr. Supriya

Participants: Start Video, Chat, View Screen, Raise Hand, Pause/Stop Recording, Leave



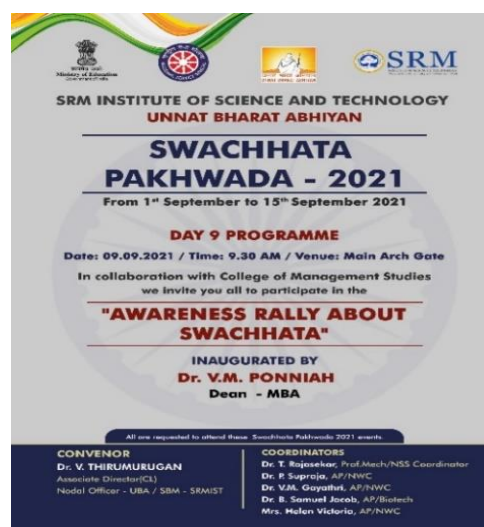
Speech Competition on theme “Forest Conservation”



AWARENESS RALLY ABOUT SWACHHATA

DAY (09-09-21)

The 9th day program of SWACHHATA PAKHWADA was inaugurated by Dr.V.M.Ponniah, Dean, College of Management, at 9:30 am on 09/09/2021 at the Main Arch Gate and was presided over by Dr.V.Thirumurugan, Associate Director(Campus Life). SRM College of Management, SRM IST, Kattankulathur campus, organized an “AWARENESS RALLY ABOUT SWACHHATA” during this event. Nearly 50 faculty members and research scholars from the College of Management, carrying placards participated in the rally. The event concluded with a vote of thanks by Dr. V.Thirumurugan, Associate Director (Campus Life) at Peter Drucker Hall in the College of Management.



KITCHEN ZERO WASTE LIFESTYLE STAY GREEN AND SAVE PLANET DAY-(10-09-21)

SRM Institute of Science and Technology has been carrying out altogether immense events for 15 days in accordance with UNNAT BHARAT ABHIYAN, SWATCHHATA PAKHWADA 2021. As the 10th day programme was the webinar on Kitchen Zero Waste Lifestyle: Stay green and save the planet organized by SRM Institute of Hotel Management.



The zero waste life style involves reducing the kitchen trash which can be recycled to have a food bin for compost.

Among the three guest speakers of the day Ms. Elizabeth Yorke, Chef & Researcher, Co-creator of Edible Issues and Accredited Consultant, briefly elaborated on the concept of utilizing the wastages into resourceful products right from the kitchen of a home to the kitchen of a big restaurant. She insisted on the importance of educating every one regarding the conservation of food without wasting it. Her speech was very useful and inspiring to everyone right from mothers to leading chefs.

The session of Ms. Elizabeth Yorke was followed by Chef Nageshwaran, Group Culinary trainer and also the sous chef of GRAND By GRT. He brought into highlight all the applications that are being followed in today's kitchen of the leading hotels. The steps taken to reduce the wastage of food by reducing the size of the buffet and also by limiting the dishes at the buffet. The cleanliness and hygiene standards set by the hotels to maintain personal hygiene and also with the usage of meat, fish and vegetables make it possible to reduce the waste to a larger extent.

The last speaker of the day is Mr. Dhanasekar, The Chief Engineer of Ramada Plazza, Chennai enlightened the members by elaborating in a detailed manner about the steps and precaution taken in different areas like cold room, ventilation, equipments used for cooking, water supply and drainage system, Hot and cold storage, LPG supply, cooking ranges and burners. The periodical and regular check ups and cleaning reduces volume of wastages and damages.

The session concluded with lots of practical tips and useful information being shared on reducing kitchen wastage that are easily applicable.

Dr. D. Antony Ashok Kumar, director of Institute of Hotel Management, Dr. Leenus J Martin Director Campus Life and Dr. V. Thirumurugan Associate Director Campus life and Nodal Officer of SRM IST were the convenors of the session.

BEST OUT OF WASTE COMPETITION

(Slogan writing, Poster making and Speech)

DAY-(04-09-21)

An Inter department Best out of Waste competition was organized by School of Architecture and Interior Design on 11.09.2021 in line with Swachhata Pakhwada. It was Inaugurated by Dr.P.Satheesh Kumar, DEAN SAID in the presence of Dr.C Pradeepa, HoD-Architecture and Prof.Saravana Raja, HoD-Design. The aim of the competition is to create awareness that any waste is not actually a waste but can be repurposed and need not be dumped as landfills polluting the environment.



Eight students of various departments enthusiastically participated in the competition. Entries received from the competitors had a wide spectrum of waste materials used for composing their art works. The materials were ranging from newspapers, waste fabrics, ice cream sticks, boxes, etc

Competition entries were evaluated by a panel of professors from School of Architecture and Interior Design. The panel includes Dr.P.Satheesh Kumar, DEAN-SAID, Prof.Saravana Raja, HoD – Design, Prof.Kamalakaran and Ar.Narayani. The evaluation was done online with the participants explaining their design thinking and the product. All the entries received greater appreciation from the panel members for their creative and innovative use of waste materials. It was a delight for both jury and audiences to see the conversion of waste to art works.

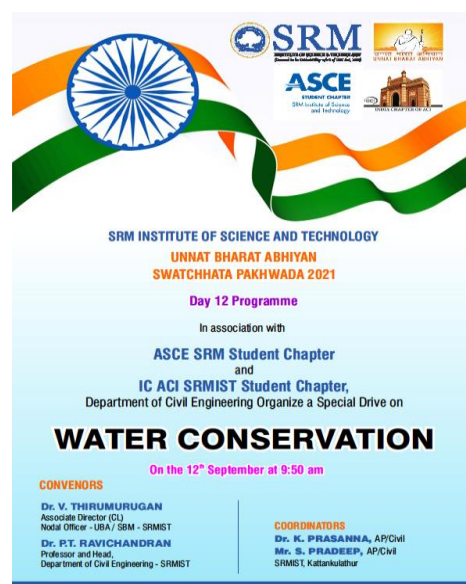
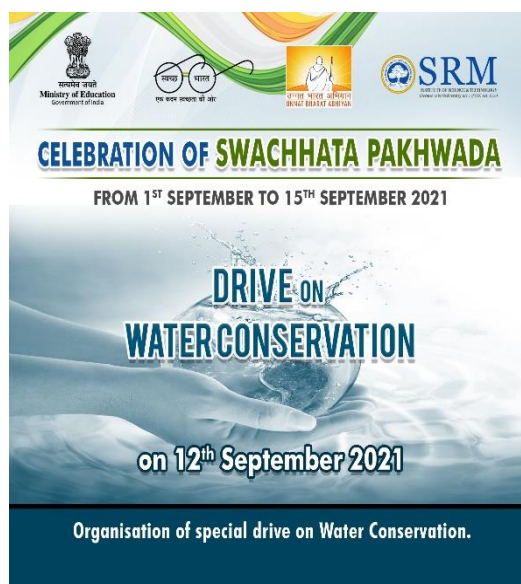
After consolidation of marks from the panel members first, second and third prize was given to students Ms.Roohi Afreen, Ms.Khushi suraj and Ms.Roshni Rajarajan RA of Architecture department respectively. All in all, It was a memorable event enjoyed by both participants and audience.



SPECIAL DRIVE ON WATER CONSERVATION

DAY-(12-09-21)

UBA SRMIST in association with ASCE SRM Student Chapter And IC ACI SRMIST Student Chapter, Department of Civil Engineering Organize a Special Drive on “WATER CONSERVATION”



MOM

The Maintenance Team along with faculty and student team members are Inspecting Well, Bore well, Water Tanks and Rainwater harvesting Structures across the campus near the Basic Engineering Block, City Union Bank and Auditorium to collect the water samples. The samples have been collected across the campus and have been tested in the Basic Civil Engineering Laboratory parameters like Turbidity, Ph. The photos are attached below

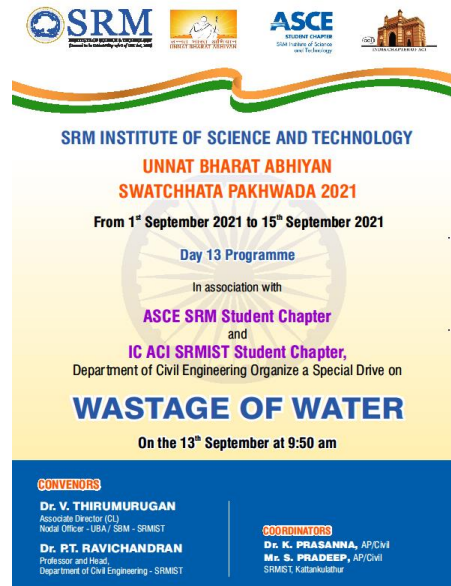
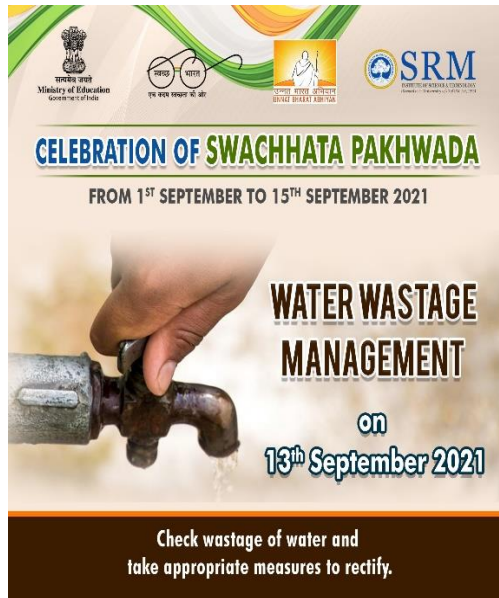
SAMPLE	PH	TURBIDITY	TDS
Well Water (BEL)	6.82	0.3 NTU	1100 ppm
Well Water (CUB)	6.98	0 NTU	1100 ppm
Near Auditorium	8.24	1.4 NTU	1100 ppm

It is suggested that marking can be done in all open wells at regular intervals so that we can know the ground water level increase during the rainy season. The marking can be made permanent. Hence, the water level can be measured periodically during the monsoon season.



SPECIAL DRIVE ON “WASTAGE OF WATER” MANAGEMENT DAY (13-09-21)

UBA SRMIST in association with ASCE SRM Student Chapter and IC ACI SRMIST Student Chapter, Department of Civil Engineering Organize a Special Drive on “WASTAGE OF WATER”



MOM

The Maintenance Team along with faculty and student team members are Inspecting Sink, Toilets, Urinals, Water Cooler, Indian and Western Toilets across the campus. There is no wastage in any place due to proper maintenance. The photos are attached below

It is suggested that Checking has to be done at regular intervals so that we can control the wastage of water from different locations.





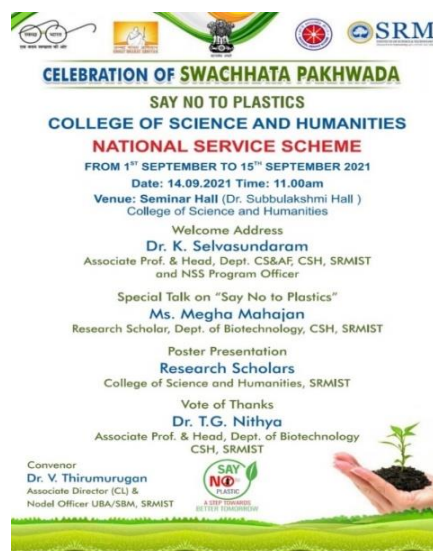
BAN ON SINGLE USE PLASTICS -SPECIAL TALK & COMPETITION

(Poster making and Speech competition)

DAY (14-09-21)

SRM Institute of Science and Technology is so proud to celebrate Swachhta Pakhwada 2021 for 15 days from 1st to 15th September 2021. In Collaboration with College of Science and Humanities & NSS, Day 14 (14-09-2021) event was conducted on Theme **“SAY NO TO PLASTICS”** at 11.00 AM through offline mode at **Seminar Hall (Dr. Subbulakshmi Hall), College of Science and Humanities** to create an awareness on plastics pollution.

The event is coordinated by Dr. Selvasundaram, Associate Professor, Head of Department of CS & AF and Dr. T.G. Nithya, Associate Professor, Head of Department of Biotechnology, CSH.



The event started with welcome address by Dr. Selvasundaram, Associate Professor, Head of Department of CS & AF, CSH followed by a special talk on **“SAVE OUR BEAUTIFUL PLANET FROM PLASTICS”** by MEGHA MAHAJAN, Research Scholar, Department of Biotechnology, CSH.

In the talk, she covered the current scenario of plastics pollution and also explained the importance and usage of Bioplastics as an alternate solution to the plastic problem.

After talk Dr. T.G. Nithya, Associate Professor, Head of Department of Biotechnology, CSH explained the agenda of the event. Later Mr. Fredrick, Assistant Professor, Department of English, delivered a speech on the current plastic menace, followed by speech competition on the theme **“SAY NO TO PLASTICS”**.

Two participants gave their speech on the given theme.

Parallely Speech Competition on the theme **“BAN ON SINGLE USE OF PLASTICS”** was conducted through online mode. In total, around 40 students participated through online mode. Poster making competition was also conducted on the same theme and around 10 Research scholars from Biotechnology department, CSH participated and shared their views on plastics pollution through their beautiful handmade posters.

The event competitions were judged by Dr. Shanthi Chitra, Associate Professor, Head of Department of English and Dr.G. Kalpana, Associate Professor, Head of Department of Computer Science. Later Dr. Shanthi Chitra, Associate professor, Head of Department of English, felicitated the program followed by announcement of the results of poster competition and speech competition. The event successfully ended with the Vote of thanks delivered by Dr. T.G. Nithya, Associate Professor, Head of Department of Biotechnology, CSH, SRMIST.

Winners of the event:

For Poster Making Competition:

First Prize: Sneha

Second prize: Smarika Chauhan

Third prize: Santhosh pugazh

For Speech Competition:

First Prize: Shana Sara Luke

Second prize: Dhelip R

“SAY NO TO PLASTICS”

THE PHOTOS AND EVENT VIDEOS ARE ATTACHED BELOW FOR REFERENCE

Glimpse of the event:





VALEDICTORY CERMONY OF “SWACHHATA PAKHWADA 2021” DAY (15-09-21)

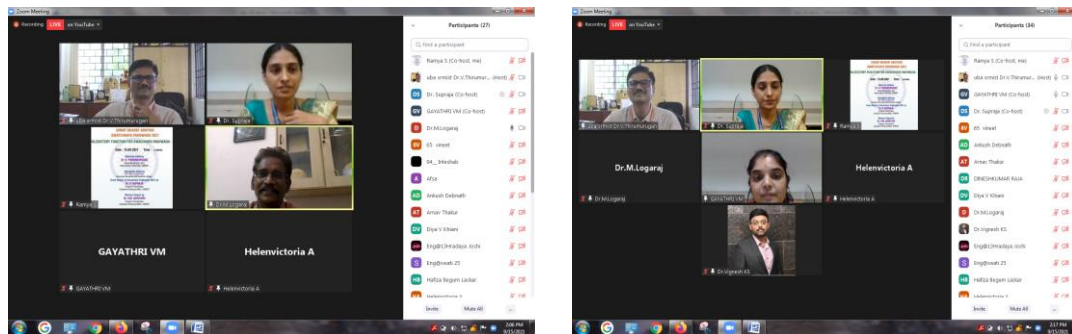


The Swachhata Pakhwada as a part of swachh bharat abhiyan launched by Government of India, is a fortnight-long program observed to ensure mass participation of citizens in Swachhta activities and to truly transform Swachh Bharat into a citizen's movement.

MHRD being a part of this initiative has directed to all educational institutions to take part in swachhta pakhwada 2021 and requested to identify innovative practices for institutionalize cleanliness and to set the tone and pace for the swachhta movement in the country a huge outreach to the community.

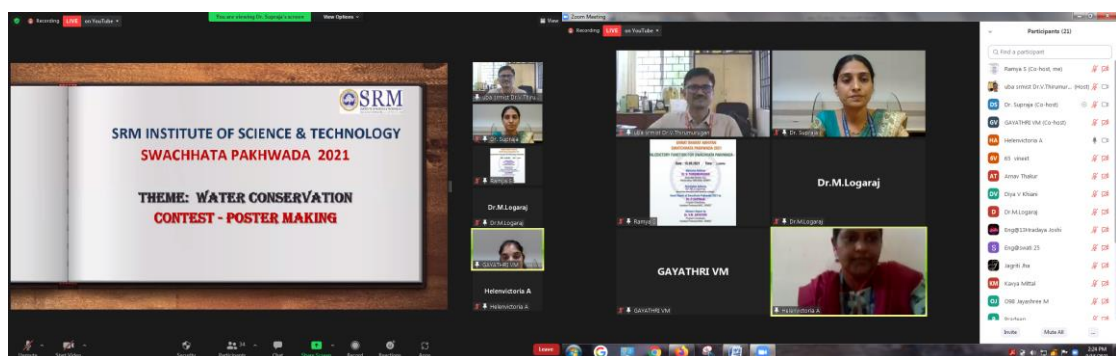
Our SRM Institute of Science and Technology is so proud to participate in this swachhta movement and celebrated Swachhata pakhwada 2021 for 15th days from 1st to 15th September 2021 and the valedictory ceremony for the same happened on 15th of September 2021 at 2.00 PM through zoom meeting

The meeting started with welcome address delivered by Dr.V.Thirumurugan, Associate Director Campus Life, & Nodal officer for Unnat bharat Abhiyan, Swachh Bharat Mission Later Dr.M.Logaraj, Associate Dean- students Affairs, SRM Medical college delivered the felicitation note sharing importance of swach movement and praised about the swach initiative taken by SRM university. In total 40 to 50 participants has attended this event includes Deans, Directors, Faculty members and Students.



Swachhata Pakawada 2021 - 15 days event report delivered by Dr.P.Supraja, Program coordinator, Assistant professor, School of Computing, Followed that Dr.V.M.Gayathri Assistant professor, School of Computing announced the winners of all the contest and events happened for 15 days.

Later Mrs.A.Helen Victoria, Assistant professor, School of Computing thanked all the dignitaries and participants who have taken part in swachhata pakhwada 2021 valedictory ceremony.





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