



i

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Report on THE WORLD ENVIRONMENT DAY CELEBRATION - 05THJUNE 2019 **WEEK LONG ACTIVITIES**

3rd June to 07th June 2019

Prepared By Prof. Kantha D. Arunachalam Dean

Center for Environmental Nuclear Research Directorate of Research and Virtual Education SRM Institute of Science and Technology

World Environment Day Schedule – SRM IST	1
World Environment Day Invitation	3
World Environment Day, Week-Long Activities, 03 rd June – 07 th June 2019	4
Report – The World Environment Day 05th June 2019	5
Google Forms Shared for Registration	6
ENVIRONMENT AUDIT CUM WALKATHON – Monday, 3rd June 2019	14
Environmental Audit at SRM IST Waste Collection, Segregations from the Vendors.	16
Directors & Deans Meeting, SRM IST - Monday, 03rd June 2019	17
TREE PLANTING AT MAMANDOOR – Tuesday, 4 th June 2019	19
Team Members from SRM IST Planting Trees at SRM Health Centre, Mamandoor	20
INTRA COLLEGE E-POSTER PRESENTATION	22
List of Participants in e-poster presentation	24
Photos of Student's Presentation	25
Inauguration of CME on Hospital Waste Management	26
Presidential Address by VC and Special Lectures by Guest Speakers	27
Students_Posters Presentation – CME on Hospital Waste Management and	28
Prize Distribution to e-poster winners	30
Valedictory of CME Programme	32
RALLY ON WED2019 CELEBRATION – Friday, 07th June 2019	33
Rally for promoting the theme Beat Air Pollution and Prize Distribution	34
Prize Distribution for Best Slogans	35
WORLD ENVIRONMENT DAY WORKSHOP – Friday, June 7th 2019	36
Terrace Gardening	36
Fireless Cooking	38
Balls Making for Children	40
Press Release	42
ANNEXURE	44

Contents

World Environment Day Schedule – SRM IST

Date	Events	Venue		Registration Details		
3.6.19	Environmental Audit	 Java Green Canteen Medical Canteen SRM campus 	2 to 4 Staffs from each department https://tinyurl.com/ED-19-3			
4.6.19	Tree planting & Seed Ball Throwing	SRM Rural Health Hospital Mamandoor				
5.6.19		Ramzar	Holiday			
6.6.19	Intra college E- poster competition Last Date for Submission 5 th June 6.00 pm	Students, Teaching and Non -Teaching faculties from E & T, FSH, FAS, Management, Law & IHM	n Indian Association of Nuclear and Allied			
7.6.19 4:30 pm –	Workshop on Seed ball Making	Children of SRMIST members	MBA Block (Lawn) <u>https://tinvurl.com/Environr</u> day-19			
5:30 pm	 Terrace Gardening Fireless Cooking 	SRMIST members	MBA Seminar Hall			
7.6.19	Valedictory 5:30 - 6:30pm		Venue – MBA Seminar Hall			
	Dinner 6:30 – 7:30 pm		Venue – Tech Park Canteen			



World Environmental Day – 2019



Weekly Agenda of Environmental day

Date	Day	Plan of Action	Venue	Responsibilities/Remarks
3/6/2019	Monday 10:00 am - 1:00 pm	Environmental Audit in SRM IST	 Java green SRM MCH & RC Canteen 	Dr. Mythili – DSA Dr. V. Thirumurugan., AD (CL) E&T and FSH Faculties SRM MCH & RC
4/6/2019	Tuesday 10:00 am - 4:00 pm	 Tree Plantation Drive Seed Ball throwing 	SRM Rural Hospital, Mamandoor	Organizers – DSA 1. Dr. T. M. Thiyagarajan (FAS) 2. Dr. Padma Venkat (SPH) 3. Dr. Rajan Patil (SPH) 4. Dr. V. Thirumurugan
6/6/2019	Thursday 9:00 am - 4:00 pm			Event Co-ordination 1. Dr. Gayathri, SRM MCH&RC 2. Dr. Sangeetha –Nursing
				 Mrs. Bharathi Raja, SRM MCH&RC Organizers – DSA Speakers Dr. Kantha-CENR
7/6/2019	Friday	Forenoon: (9:00 am - 10:30 am) MARCH FOR ENIVORNMENT – 1. Banner Competition 2. Rally - Medical & Health Sciences Students		Dr. V. Thirumurugan Event Co-ordination – Dr. Gayathri, SRM MCH&RC
	9:00 am - 10:30 am 4:00 pm - 5:00 pm	0:00 am - 10:30 am Afternoon: (4:00 pm - 5:00 pm) Workshop on		Dr. Sangeetha –Nursing Mrs. Bharathi Raja, SRM MCH&R Dr. Kantha D. Arunachalam (CENR)
		Valedictory/Dinner (5.00 pm to 7.00 pm)	1	Organization part – DSA Workshop - Dr. Parthiban (FAS

World Environment Day Invitation



PROGRAMME

08.30 – 09.00 am	Registration https://tinyurl.com/hwmmedical
09.00 – 10.30 am	E - Poster Presentation (MBBS and BDS)
10.30 - 10.40 am	Inaguration
10.40 - 11.15 am	Guest Speaker I <i>(Hospital Waste Management)</i> Dr. V. K. Ramadesikan, MBBS., MD., Former Professor in Madras Medical College Chennai
11.15 – 12.00 pm	Guest Speaker II (Green Initiatives)
	Shri J. Daniel Chellappa
	Senior Scientist (TCW)
	BARC, GOI, Chennai
12.00 – 01.00 pm	E - Poster Presentation (AHS (MLT), Nursing, B.Opt, RDT)
01.00 – 02.15 pm	Lunch Break
02.15 – 03.00 pm	Guest Speaker III (Radiation Awareness)
	Er. M. Shanmugasundaram
	Scientific Officer/F, IFS, DD & RSD, FRTG, IGCAR, Kalpakkam-603102
03.00 – 04.00 pm	E - Poster Presentation (BPT, BOT & MIT)
04.00 – 04.10 pm	Prize Distribution & Pledge
04.10 pm	Felicitation & Vote of Thanks

World Environment Day, Week-Long Activities, 03rd June – 07th June 2019

Date & Time	Details of various activities
03 rd June 2019	Environment Audit by SRM IST Faculties, Staff and Students
04 th June 2019	Tree Planting and at SRM IST Rural Hospital Campus at Mamandoor Village
06 th June 2019	 Intra College e-poster Presentation at Hippocrates Auditorium, 3rd Floor SRM Medical College Hospital & Research Centre Guest Lecture: Dr. V. K. Ramadesikan, Former Professor in MMC, Chennai Shri. J. Daniel Chellappa, Senior Scientist, BARC, GOI, Chennai Er. M. Shanmugasundaram, Scientific Officer/F, IFS, DD & RSD, FRTG, IGCAR, Kalpakkam
07 th June 2019	 Demonstration of Terrace gardening (Dr. M. Leenus Jesu Martin, Director Hostels) Fireless Cooking

<u>Report – The World Environment Day 05th June 2019</u> <u>SRM Institute of Science and Technology,</u> Kattankulathur, Chennai – 603 203

SRM Institute of Science and Technology celebrated World Environment Day, 05th June, 2019 (WED). it was jointly organized by Center for Environmental Nuclear Research, Directorate of Research and Virtual Education, School of Public Health, Medical College, School of Nursing, Physiotherapy, Occupational Therapy, Faculty of Engineering & Technology, Directorate of Student Affairs, Swachh Bharat Team showcasing and harnessing the multidisciplinary strength at SRM IST by coming together for a common cause. It was a symbolic fact that environment is everybody's concern and environmental issues necessarily should have inter-sectoral initiative. The World Environment Day celebrations from 03rd June 2019 to 07th June 2019 packed with a multitude of environmental activities starting with

- 1. Environmental audit cum Walkathon at SRM Kattankulathur campus
- 2. Tree planting at SRM Rural Health Center, Mamandoor
- 3. Intra college e-poster competition
- 4. Rally for creating awareness about air pollution
- 5. Demonstration of Terrace gardening
- 6. Fireless Cooking
- 7. Workshop on Seed Ball Making

Registration links for participating in various events of the celebration were shared with students and faculty members. Promotional head caps with Beat Air Pollution slogan was distributed to all the members in the campus. The prizes and certificates were distributed to all the winners of various competitions and participation certificates were given to all the participants of the events. On completion of the WED 2019 celebration, the program concluded with the Environment Pledge followed by the vote of thanks note by Prof. Kantha D. Arunachalam, Dean, CENR, DRVE, SRM IST.

All our activities are well covered in the media as prime-time news in Puthiya Thalaimurai, Vendhar TV and also in all leading newspapers.

Google Forms Shared for Registration

6/14/2019	World Environmental Day	
	World Environmental Day June 3,2019-Environmental Audit. Venuetinside SRM Campus. Timings:10.00a.m to 12.00p.m. Refreshment will be provided. June 4,2019-Environmental day(Tree Plantation) VenuetUrban & Rural Health Centers, Memandur.	
	Timings9.30a.m to 12.30p.m Transportation will be provided from SRM TO Mamandur, Return also. Lunch will be provided. * Required	
	1. Name *	
	2. Phone No *	
	3. Email ID *	
	4. Present Residential address *	
	5. Disciplines *	
	6. Department *	
	7. Designation at SRM *	
htps://docs	s.gzogis.com/lomakt/1uUCP0s-21DzPPk20/8zgykzwz8Qijn87QVmQ4VzSQtoleck	1/2
6/14/2019	8. Events *	
	Check all that apply: Environmental Audit (June 3,2019) Plantation Drive (June 4,2019)	



6/14/2019	CME on Hospital Waste Management						
	CME on Hospital Waste Mana	igement					
	Time:- 09.00am - 12.30pm						
	Venue:- Hippocrates Auditorium (Medical Auditorium)						
	* Required						
	1. Full Name *						
	2. Course *						
	3. Year * Mark only one oval.						
	2018-2019						
	2017-2018						
	2016-2017						
	2015-2016						
	4. Whatsapp Number *						
	5. Email ID *						
	6. You want to participate as *						
	Mark only one oval.						
	Delegate						
	e-Poster presentation						
	Powered by						
https://doc	.google.com/forms/d/1HITUGVgaEnn7LoNTuhZXoHYMb5q9g-fxy10	2cQy_NTpgledit	1/1				



6/14/2019	E-Poster Competition for Environmental Day-19	
	E-Poster Competition for Environmental Day-19 Date:- 06.06.2019	
	Time:- 09.00am - 12.30pm	
	Venue:- Hippocrates Auditorium (Medical Auditorium)	
	* Required	
	1. Full Name *	
	2. Phone Number *	
	3. E-Mail Id *	
	4. Faculties * Mark only one oval. E&T FSH FAS IHM LAW School of Management	
	5. Department *	
	6. Designation * Mark only one oval. TEACHING NON-TEACHING STUDENT	
	Powered by Google Forms	
https://docs	.google.com/forms/d/1CnB3wF8sbBSse3zHJ9lQ1KmwMwhWoKdHI_pUeXhoX8/edit	1/1



6/14/2019	9 World Environmental Day-2019	
	World Environmental Day Celebration-2019 World Environmental Day Celebration-2019 Th June 2019-04.30 p.m to 7.30p.m Event Agenda: 1)Workshop on Seed Balls making for Children. Venue: MBA LANE. 2)Workshop on Terrace Gardening. Venue:MBA Seminar Hall. Valedictory. Dinner.	
	1. Name *	
	2. Designation in SRM *	
	3. Department	
	4. Present Residential Address *	
	5. Children Name & Standard	
	6. Contact No *	
	7. E-mail id *	
https://doc	Powered by Google Forms cs.google.com/forms/d/14hCFN01ioW-VA57LSi8UR3kcMuFf-996nTEvwkwxqok/edit	1/2



Environment Audit cum Walkathon – Monday, 3rd June 2019

A team of faculty members across disciplines Center for Environmental Nuclear Research, School of Nursing, Physiotherapy, Occupational therapy, Medical, Public Health, Directorate of Student Affairs, Engineering &Technology, **Swachh Bharat** have joined hands for a week-long celebration, in view of Environment Day on June 5th 2019. On Monday, June 3rd, 2019, being the first day, a group of 50 members gathered at the University Library and instruction for the Environmental Audit was given by **Prof. Kantha Deivi Arunachalam**, Dean, Centre for Environmental Nuclear Research. A demonstration and information hand out on the environmental audit details have been given to all the members. The 50-member team went for a mini walkathon around the campus and did the Environmental Audit protocol at two places.

- 1. Near the library
- 2. Shops at Java Green.

The 50-members team separated into small groups to create awareness among the vendors at Java Green Canteen, about the importance of avoiding nondegradable materials like plastics and segregating the wastes into biodegradable and non-biodegradable. The housekeeping team along with gloves and bags helped to segregate the waste as paper cups, plates, food, plastic bottles and metals, cans, bottles and took the weight of them. The faculties from the Center for Environmental Nuclear Research demonstrated the preparation of the audit report with the waste data generated during the mini walkathon for the participants The 50 member team gathered at Tech Park canteen and discussed various functional mechanisms to make the SRM IST a plastic free campus by creating awareness among the students, faculties, staff, SRM workers and the vendors. The long-term objective is to reduce waste and segregate the waste every day and make it a part of life, thereby leaving the world a safer place for our future generations. The team discussed the plan of action for the next few days celebrations; bringing today's activity to an end.

Waste Audit Report Questions

- 1. Location
- 2. Type of waste: whether it is Dry, Wet, Hazardous or Mixed
- 3. What waste it contains
- 4. Weight of the waste
- 5. Quality of the waste: Whether it is contaminated with other waste or not
- 6. **Source**: Where the waste came from

Time of Clearance: 8 am, 2 pm

Location 1:

- 1. Central Library
- 2. Mixed
- 3. Contained: Straws, Paper, Plastic spoon
- **4.** 150g
- 5. Quality: Poor
- 6. Source: Canteen (Orange blossom)

Location 2:

- **1.** Food court (Java Green)
- 2. Mixed
- **3.** Contained: Plastic cups, Coca-cola pet bottle, lays chips pockets, paper cups, snickers covers, plastic spoon waste, paper plates, minute-made orange, tissue paper, sprite bottles, bisleri plastic bottles, snickers cardboard box, plastic covers, plastic straws, food waste, kit-kat cover
- 4. 1215g of mixed plastic waste & 2115g of plastic cups and other waste
- 5. Quality: Poor
- 6. Source: Coming from various food shops.

Monday, 3rd June 2019, Environmental Audit at SRM IST Waste Collection, Segregations from the Vendors













Directors & Deans Meeting, SRM IST - Monday, 03rd June 2019

SRM Institute of Science and Technology, Directors and Dean's Meeting was held on 3rd June 2019 and **Dr. Sandeep Sancheti**. Vice Chancellor, **Dr. N. Sethuraman**, Registrar and all Directors and Deans were present. In this meeting, they discussed the World Environment Day 2019 celebrations. WED2019 committee members informed about the weeklong activities that include Environmental audit, e-posters presentation for students and faculties, environmental awareness rally, seed ball making, terrace gardening and fireless cooking. Further, WED2019 organizing team distributed the Caps and Seed Balls with guidelines to all the delegates to promote environmental day activities.

There are three types (Neem, teak and custard) of seed balls distributed in a pack distinguished with colour to throw in and outside of the campus. The guidelines will help them to throw seed balls.



Seed Balls



Seed Ball Guidelines

Directors and Deans Meeting, SRM IST



Tree Planting at Mamandoor – Tuesday, 4th June 2019

The second day of the World Environment Day (WED) celebration -2019, the 45 member members from medical and Health Sciences department of SRMIST including faculties and students have reached the SRM Rural Health center at Mamandoor on 04/06/2019. The bus services have been provided by the Transport Division. Before starting the tree plantation function Prof. Kantha D Arunachalam, Dean-CENR gave the Welcome speech to participants. Further, she denoted about the environmental issues and what are the measurements we have taken to care for environmental protection and its importance. She also added a note about SRM IST Green Initiatives to keep the environment clean.

The maintenance team of SRMIST has arranged the 40 plants saplings of five varieties; **Jackfruit, Neem, Almond, Indian beech** (Pungai) and **Malay Padauk** (Vengai) from the Agriculture Department. The other required materials like gloves water cans and tolls for Tree plantation has been provided by the horticulture department (Mr. Elango). Each participant planted different varieties of plant saplings around SRM Rural Health Center and totally 40 trees were planted. **Dr. Roshni Alex** the medical Doctor in-charge at the hospital was very kind and made the local arrangements with the help of the supervisors and other interns available in the rural hospital. The lunch and refreshment were provided to all participants by the WED-2019 team. The planting of trees alone is not sufficient but it has to be maintained by daily watering and putting guards to protect the plants from the animals like cows and goats. So, WED-2019 team decided that we can request the **Unnat Bharat Abhiyan** (UBA) team to take care of the plants by watering them every day. Finally, Prof. Kantha D Arunachalam thanked SRMIST for providing the facilities and Doctors and staff members of SRM Rural Health Center for necessary arrangement.

Team Members from SRM IST Planting Trees at SRM Health Centre, Mamandoor





Intra College e-poster Presentation

<u>At Hippocrates Auditorium, 3rd Floor SRM Medical College Hospital &</u> Research Centre Thursday, 06th June 2019

As a part of the World Environment Day celebrations, the selected e-poster presentation was conducted from the 320 entries for the e-poster competition. Students from various disciplines such as MBBS, BDS, AHS, MLT, Nursing, OPT, RDT, BPT, BOT & MIT participated in this and presented their creative posters with the theme of **Hospital Waste Management** and **Beat Air Pollution** to create awareness. **Dr. B. Gayathri**, SRM MCH &RC co-ordinated this program. The posters were judged by a panel of judges. The list of judges for the e-posters competition

- 1. Dr. Vijaykrishna, MD Community Medicine
- 2. Dr. Mononmani. MD Microbiology
- 3. Dr. Sangeetha Raja, MD Pharmacology
- 4. Dr. B. Gayathri, MD Biochemistry

After the tea break, the inauguration started with Tamizh Thaai Vaazhthu followed by the Classical dance, Bharatanatyam performance by - first-year medical students. Then Honourable Vice Chancellor of SRM IST **Dr. Sandeep Sancheti** presided the function and delivered his presidential address. **Dr. A. Sundaram**, MD., Dean SRM Medical College Hospital & Research Centre delivered a special address. The guest invitees were honoured with mementos. Shri J. Daniel Chellappa, Senior Scientist (TCW) BARC, GOI, Chennai felicitated the function.

As soon as the inauguration was completed, Special lectures were given on Environment awareness.

- The first lecture was given by Dr. V. K. Ramadesikan, MBBS., MD., Former Professor in Madras Medical College Chennai, on the title "Hospital Waste Management".
- The Second lecture was given by Shri J. Daniel Chellappa, Senior Scientist (TCW) BARC,
 GOI, Chennai, on the topic "Green Initiatives".
- The final lecture was given by Er. M. Shanmugasundaram, Scientific Officer F, IFS, DD & RSD, FRTG, IGCAR, Kalpakkam, on the topic "Radiation Awareness".

Finally, the posters of excellence were honoured with prizes under three different categories and e-Certificates were provided for all the participants. The day ends off with a vote of thanks and all gathered for National Anthem.

The prize winners of the e-poster competition are listed below

MBBS Category	Paramedics Category	M.Sc Category
1 st Prize – Rashmi Rithusha	1 st Prize – Ms. Ranjana Gupta	1 st Prize – Ms. Aparna
2 nd Prize – Reva Venkatesan	2 nd Prize – Ms. Mohana Priya	2 nd Prize – Ms. Sneha Priya
3 rd Prize – Chandru & Jeevan	3 rd Prize – Mr. Praveen Kumar	



List of Participants in e-poster presentation

S.No	Name	Department	Title
1	Ms. Rashmi Rithusha, Dr. B. Gayathri, MD	MBBS	A study on hospital waste management in Apollo children hospital
2	Ms. Reva Venkatesan, Dr.B. Gayathri, MD, Dr.V.M. Vinodhini, MD,	MBBS	Hospital Waste Management
3	Mr. Rohan Raj	MBBS	Hospital Waste Management and recent developments
4	Mr.Jeevan	MBBS	Hospital Waste Management
5	Ms. Pooja	MBBS	Hospital Waste Management
6	Mr. Praveen	Nursing	Hospital waste management
7	Ms. Ramya	Nursing	Biomedical waste management
8	Ms. Ranjana	Nursing	Hospital waste management
9	Ms. Keerthana	Nursing	Hospital waste management "Environment is precious to life, secure it for life
10	Ms. Jayasree Kannan	Nursing	Biomedical waste management
11	Mr. Karthic, Ms. Santhiya, Ms. Minisha	Nursing	Hospital waste management
12	Ms. P. Snega Priya	Medical Microbiology	Identification of plastic degrading bacteria and degradation of biomedical waste by biodegradation
13	Ms. R. Aparna	Medical Microbiology	Biomedical waste management- challenges faced in India
14	Mr. Saravana Kumar, Mr. Mohan	Physiotherapy	Biomedical waste management
15	Mr. Balaji. R & Mr. Pranav. A	Physiotherapy	Misuse of bio-medical waste & health
16	Mr. Ramu. E, Mr. S. Aditya Rajan	Physiotherapy	Bio medical waste management
17	Mr. Nelson	MLT	Hospital waste management
18	Ms. J. Soundarya	MLT	Biomedical waste management
19	Ms. Srilekha	MLT	Sharps disposal and needle stick injury

Photos of Student's Presentation













Inauguration of CME on Hospital Waste Management





Presidential Address by VC and Special Lectures by Guest Speakers











Posters Presented by Students with the Theme of Hospital Waste Management and Beat Air Pollution









blio Children's	A	STUDY ON HO POLLO CHIL Ishmi Rithusha.V,	DREN	I'S HO	SPITA	L (Gr	eams Ro		U i	SRM INIVERSITY de sectes 2 d UGC de 1956
Quality of biomedical waste Generated in Null during 1.3.2019/1.3.20000/1.3.200000000000000000000000000000000000								REPORTING		
TO	SN	вм₩	1.5.19	2.5.19	3.5.19	4.5.19	5.5.19	6.5.19	7.5.19	HEREBR
	1	CLINICAL WASTE (red)	53.4	36.4	51.4	52.5	56.30	27.60	58.60	TARIARIA Koemine aaraa
	2	INFECTIOUS WASTE (yellow)	59.3	55.8	57.6	55.4	59.00	39.40	61.40	
	3	SHARP WASTE (white)	0.00	0.00	2.00	0.00	3.00	0.00	0.00	<u> </u>
-	4	BOTTLES WASTE (blue)	4.00	8.00	5.00	4.00	6.00	5.00	3.00	WURF INTET
ICOL MATTER CALIFORNIA		TOTAL	116.7	100.2	116.0	111.9	124.3	72.00	123.0	TESTRUTIONEN
		above data shows ctious waste >clinic						nt of		DECKNOLED
	Pi	ctures below in c	order de	epict the	e steps	of need	lle dispo	sal		
1. 2	2.	3. 4	4.	5.		6.		7.		WEI
	T	N. I	-	C					A CO	HERALDIOREM
			-			-	DANGE DANGE INTERIOR BE	ne	1	INGERIORIAGEI Idillefendi
	10 M		E-ANG E-MIDECO	LECTOR		SHAP		Life .	A	itel ini sini si



Posters Presented by Students with the Theme of Hospital Waste Management and Beat Air Pollution





Posters Presented by Students with the Theme of Hospital Waste Management and Beat Air Pollution



INTRODUCTION	OBJECT OF HOSPITAL WASTE	
Hospital are important for the generation of hazardous waste. Each hospital has its own profile for the generation and transportation of waste according to its location.	 To prevent injury and accidental transmission of microbial infections to hospital staff, patients, visitors and general public. 	
It is extremely important to manage hospital generated waste properly in order to avoid health and environmental risks.	 Hence proper hospital waste management for disposal of waste is of utmost is of importance for 	CONCLUSIONS CLEAN CITY STARTS WITH YOU, THERE PUT WASTE IN
Hospital waste management means the management of waste by hospitals using techniques that will help to check the spread of disease through.	the safety of health care personnel and community.	THE RIGHT PLACE
SEGREGATIO	لیون N OF HOSPITAL BIO-MI	EDICAL WASTE
Kitchen Waste, Paper & Tisaes & Water Bottles & Cons		e Visto, Needlon & 📿



Hospital Waste Management Miss.Reva Venkatesan MBBS(1st year), Dr.B.Gavathri,MD

©SRM	J. Soundarys 5RM Medical	CAL WASTE MANA 189C. Medical Laboratory Technolo College Hospital and Research Contr tankulathur, Tamii Nadu, India-603	gy 2 ^{art} Year
INTRODU		UNIVERSAL PRECAUI	TONE CATEGORIES OF BIOMDICAL
 Hospital waste is a waste generated fro facilities including: wastes. Only a small fractic waste generated by institutions is actual timost inportance community. Hospital waste max the diagnosis, treat institutions, is called a state of the second state of the second state of the second state of the second state. 	defined as all an modical office and kitchen of the state of the stat	hearbnochadarante re potentially infectious for the hold spore has a bank the hold spore has a bank hold the placed in a leak- particular spore has bank hold the placed in a leak- perious bage for transpo- or the laboratory. Se gloves while handling b doty find specimen and w soft or given while working the spore of the spore of the spore spore of the spore of the spore place of the spore of the spore the spore of the spore of the spore the laboratory work.	Patients Philas Phil
CATEGORY COLOUR	TYPE OF WASTE	TYPES OF BAG OR COMTAINERS USED	TREATMENT AND DISPOSAL OPTIONS
RED	Contaminated waste.(Recyclable)	Non-chlorinated plastic bags or containers.	Autoclaving or micro waving followed by shredding or mutilation.
WHITE	Waste sharps including metals.	Puncture proof, leak proof, tamper proof containers.	Autoclaving or dry heat sterilization followed by shredding or mutilation or encapsulation.
BLUE	Glassware, metallic body implants.	Cardboard boxes with blue marking	Infection or through autoclaving or microwaving & then sent for recycling.
YELLOW	Human, animal, drugs, soiled wastes	Non-chlorinated plastic bags	Incineration
		Reference	

Prize Distribution to e-poster winners



















SRM Medical College Hospital and Research Centre

"World Environmental Day Celebration" 6th June 2019

Certificate of Appreciation / Participation

This is to certify that Dr./ Mr./ Ms.

has participated as a Guest

Speaker /Delegate / Presented in E-poster at the CME on "Hospital Waste Management & Green Initiatives" held on June

6th, 2019 organized by the SRM Medical College Hospital & Research Centre.

Registrar SRM IST

Valedictory of CME Programme



Rally on World Environment Day (Wed) Celebration – Friday, 07th June 2019

The Rally Started at 10.00am. on 07th June 2019. Around 300 members of medical college students and faculties participated in WED-2019 rally. During the rally, the students held placards and posters with environmental awareness slogans. **Dr. Sangeetha**, School of Nursing, SRM IST coordinated this program. The rally started from medical college building, passed via Java Green Canteen, University Building, and Tech Park Building and ended at Dr. T. P Ganesan Auditorium. After reaching Dr. T. P Ganesan auditorium refreshments were provided to the participants. Then **Dr. V. Thirumurugan**, Associate Director (CL), SRM IST gave the prizes to students for best environmental awareness slogans.

First prize	- Nursing Team
Second prize	- Physiotherapy Team
Third prize	- Occupational Team

Prof. Kantha D. Arunachalam, Dean CENR Honored Dr. V. Thirumurugan, Associate Director (CL), SRM IST with a memento and thanked for supporting WED-2019 program. Finally, Prof. Kantha D. Arunachalam, Dean, CENR gave the vote of thanks to all the participants.




Rally for promoting the theme Beat Air Pollution and Prize Distribution



Prize Distribution for Best Slogans



World Environment Day Workshop – Friday, June 7th 2019

This event started at around 4.00 pm in Prof. Peter Drucker Seminar Hall, MBA Block, SRM IST. In this event, three activities were conducted; Terrace Gardening, Fireless cooking, and Seed ball Making. Students and faculty members of various departments of SRM IST participated with their kids in this event.

Terrace Gardening

In this event, **Dr. M. Leenus Jesu Martin** gave a talk about how to maintain a terrace garden and its importance. He emphasized the advantages of having a terrace gardening and shared his experience of joy and happiness in tasting the healthy and organic fruits and vegetables that were grown by him. He also said the challenges he faced in maintaining a terrace garden. After his talk faculty members of SRM IST and their children raised some questions and doubts to which he answered. This sitting was really useful for the entire participants.

Dr. M. Leenus Jesu Martin Presentation about Terrace Gardening





Dr. M. Leenus Jesu Martin Interacting With Audience in the Hall



Fireless Cooking

Madam Lalitha from SRM hotel management with her team of 10 members coordinated this event of fireless cooking. Chef Mr. Gopinath showed the demo of preparing tasty and easy to make dishes without using fire in front of students, faculty members and their children. Ms. Vinotha narrated about the nutritional values of the dishes prepared. She also gave the statistics about the people in hunger and asked the children not to waste the food. Then the children were given hands-on training to prepare some of the dishes like Vegetable sandwich, Chapathi roll and Sweet balls.





Fireless Cooking Demonstration by Chef Gopinath









Workshop on Seed Balls Making

Dr. Parthiban, Assistant Professor, Faculty of Agricultural Sciences demonstrated the method of making seed balls. He highlighted the growth media and other natural nutritious supplements like "*Panchagavya*" for plants. Apart from seed ball making, he also talked about the importance and advantages of involving in agricultural activities and nature loving hobbies like gardening. Children found it very useful and were found to be very happy in making the seed balls on their own. Pouches containing 3 seed balls with instruction sheet was distributed to all the participants. They also promised that each one will plant at least one plant and show its growth in the next World Environment Day celebration. All the participants were provided with a participation certificate and the children were gifted with goodies and stationary materials like crayons, sketches, chart sheets, etc. In the end, dinner was provided to everyone.











SRM Institute of Science and Technology

"World Environmental Day - 2019

A Week Long Activities 7th June 2019"

Certificate of Participation

This is to certify that Dr./ Mr./ Ms.

has participated

as a Delegate in the workshop on "Seed Ball Making / Terrace Gardening and Fireless Cooking" held on

June 7th, 2019 organized by SRM Institute of Science and Technology, Kattankulathur - 603 203.

Registrar SRM IST

Press Release





DC CORRESPONDENT CHENNAI, JUNE 11

Senior scientist in Bhabha Atomic Research Centre (BARC) J. Daniel Chellappa, stressed the need to develop more efficient water purifiers in houses and colleges.

BARC has developed technologies that would decrease the water wastage during reverse osmosis, he said.

He also mentioned the BARC developed a variety of drought resistant seeds in Tamil Nadu.

Mr. Chellappa was speaking at the World Environment Day celebrations held at the SRM Institute of Science and

The event started with an Environmental

ist in Audit around the Atomic University campus. Centre This activity helps to Daniel gauge the exact status sed the of the waste that has p more been created and r purieventually helps us to and colveloped understand the impact that it has on our ecosysse the tem.

Dr. Sandeep Sancheti, Vice Chancellor of SRM Institute of Science and Technology presided and Dr. A. Sundaram, Dean, SRM Medical College Hospital & Research Centre delivered the special M. address. Shanmugasundaram, Scientific Officer. Kalpakkam spoke on radiation awareness. Dr. V. K. Ramadesikan, former professor of Madras Medical College, also spoke.

The week-long event kick-started with the tree planting and seed ball throwing in SRM Rural Health Hospital in Mamandoor.

Events such -38 E-poster and Banner creation based on Waster Hospital management and, this year's main agenda, Beat Air Pollution (#BeatAirPollution) hundreds got of entries. The Institution of Engineers, Kalpakkam and Indian Association of Nuclear and Allied Scientist, Kalpakkam gave away prizes to the first three winners in each category.

NEEDES TO DE LE CHENNAI'S No.1 ENGLISH EVENING DAILY SINCE 1982 CHENNAI'S No.1 ENGLISH EVENING DAILY SINCE 1982 CHENNAI * WEDRESDAY 12 JUNE 2019

'Need to develop higher efficient water purifiers'

 SRM Institute conducts series of events to mark World Environment Day



SRM Institute of Science and Technology Vice-Chancellor Sandeep Sancheti presenting a memento to BARC senior scientist J Daniel Chellappa during World Environment Day celebrations in Chennai recently.

[NT Bureau]

Chennai, June 12: Bhabha Atomic Research Centre (BARC) has developed technologies that would decrease water wastages during reverse osmosis, said its senior scientist J Daniel Chellappa. Participating at the World Environment Day celebrations at SRM Institute of Science and Technology here recently, he pinpointed the need to develop higher efficient water purifiers in houses and colleges. He also spoke about the ways water purification can be perceived in SRM. Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Scientific Officer, M Shanmugasundaram, spoke about radiation awareness. He also added the need to develop better awareness among people about the radiations.

Madras Medical College former professor, Dr V K Ramadesikan, spoke about the hospital waste management. He said we need to be careful while disposing hospital waste such as a syringe, liquids, used bandages and dressings, discarded gloves and other medical supplies. He explained different ways to dispose of all these waste safely and eco-friendly. SRM Institute of Science and Technology Vice-Chancellor Sandeep Sancheti presided over the event and SRM Medical College Hospital & Research Centre dean. Dr A Sundaram gave few interesting insights into the ways, the environment can be handled better. According to a press release, the weeklong event saw tree planting and seed ball throwing in SRM Rural Health Hospital in Mamandoor. Events such as E-poster and banner creation based on hospital waste management and, this year's main agenda, 'Beat Air Pollution' (#BeatAirPollution) got hundreds of entries. Students took part in various events.

லக சுற்றுச்சூழல் தினம்: விதைப்பந்து வழங்கி எஸ்.ஆர்.எம்., கல்லூரி மாணவர்கள் அசத்தல்!



அறினியல் தொழில் முட்ப நிறுவனத்தின் துணைவேத்தர் எந்தீப்சன்சேத்தி தலையை வகித்தார். திகழ்ச்சிவில் பாபா அணு ஆராம்ச்சி லைத்தின் முதறினை விஞ்ஞானி டேனியல் செல்லப்பாசிறப்பு அழைப் பாணகபங்கேற்று உகைகற்றுருழல் தினத்தை தொடங்கி வைத்து வேளாண்மை, வின் உற்பத்தி, a...anay ugulug gagato, "Gad goir BEBUR' BCL BBob BB 2. BUBB உள்ளிட்ட பல்வேறு நுறைகளில் வளம்ச்சி காண் பதற்கான angling intermeters பட்டைதிலுக்கொண்டுள்ளது! பணியில் urur அணு ஆராம்ச்சி

மாலை 🥣 தமிழகம்

Gemmar, gBit 12-

எஸ்.ஆர்.எம்., அறிவியல்

Ganfleight u Browners sleigt As.

உகை கற்றுச்சூழல் தினத்தை,

அணுசக்தி விஞ்ஞானி டேனியல்

எஸ்.ஆர்.எம்., அறினியல்

தொழிலட்பதிறுவனத்தின்பல்வேது

ganganiki suidio edusegad

பாதுகாப்பு சம்மந்தமாக மரம்

நடுதலின் அவசியம், பதாகைகள்

வெளியிடுதல், விதைபத்து தயாத்

தல், மேணைணை மருத்துல மனை,

உணவகங்களில் தூம்மை பரா

மரித்தல், திடக்கழிவு மேலாண்மை

உள்ளிட்டபல்லேலு நிகழ்வு

கள், காற்று மாகனை னெல்வோம்

entry and a strate of the second

Gan_As slyr, Qramasia

உள்ள, எஸ்.ஆர்.வை்., மருத்துவக்

கல்லூரி மருத்துவமனை மற்றும்

ஆராம்ச்சி மையத்தின், ஹிர்

போகிரேட்ஸ் அரங்கில் நடை

But adams Gubpen Baban

ா.கை எற்றுக்குழல் தின திகழ்வு,

Grocolur Gga_tall majgai.

எஸ்.ஆர்.எம்., அறிளியல் தொழில்நுட்ப நிறுவனமும் പ്രകരിര് ഗദാനവികരാണ പ്രഹിരമണ ஆயர்ச்சி பணிகளில் ஈடுபடுத்த வேண்டும் என்றும் கேட்டுக்

Ganden_nit_@@do, anio__git_mit., மருத்துவக் கல்லூரி மருத்துவலனை ແມ່ນແຫຼງຈະການສະຫຼຸດສະຫຼຸດການສະຫຼຸດ Lada_ka.aghgarb.uk@spigromjahd Gunssonifish, "ວາງອາງ ວຽກກມ່ະຈໍລີ

உத்தத்தி வையங்களில் அணுக் கதிர் வீச்சு ஏற்படாத வணைபில் மிசுப் பாதகாப்பானமுறையில் அணு உற்பத்தி நடைபெறுகிறது. அதே

என்பது குறித்து விழிப்புணர்வு udaளுக்கு ஏற்படுத்த வேண்டும்,'' என்றார்.இந்த நிகழ்ச்சியில், சென்னை மருந்தவக்கல்லூரி (prinsent) Cumfilliuit pruCgalacte, கல்பாக்கம் அணு ஆராய்ச்சி மைய அறிவியல் அனுவலர் எல்.சண்முக கத்தாம், போசசிலியர் டாக்டர் லினோஸ் மார்டன், கற்றுச்சூழல் அணு ஆராய்ச்சி மையத்தின் (pastrement Constitions angar தேவி அருணாச்சலம் ஆகியோர் usiGaging Cuffernt proints part, soir நடைபெற்ற உகை கற்று சூழல் தினத்தின் நிகழ்வாக மாமண்டுரில் உள்ளாஸ்.ஆம்.எம்., கிறாம ககாதார അതനുകളിൽ வേന്ന, നബ, പ്രത്യം மாக்கன்றுகள்<u>நட</u>ப்பட்டதுடன் விதைப்பத்துகள் வழங்கப்பட்டன, மேலும், சுற்றுச்சூழல் குறித்த ങ്ങില്ലിവാത്ത് അതില്ലെക്ക്, അം. ஆட்கம்., அறினியல் தொழில்நுட்ப திறுவனத்தின் போசிரியர்கள், ஊழியர்கள், மாணவர்கள் பங்கேற்ற போணி நடத்தப்பட்டது.



ఇటీవల నిర్వహించిన 'వరల్డ్ ఎన్విరాన్మెంట్ డే' కార్యక్రమంలో బార్క్ సీనియర్ సైంటిస్ట్ జె.డేనియల్ చెల్లప్పకు మెమొంటోను అందజేస్తున్న ఎస్ఆర్ఎం ఇన్స్టీట్యూట్ సైన్స్ అండ్ టెక్నాలజీ Scanned with వైస్ ఛాన్నలర్ ఎస్.సందీప్ CamScanner

ANNEXURE I

Environmental Audit

What do you mean?

A management tool comprising systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of helping to safeguard the environment by facilitating management control of practices and assessing compliance with company policies, which would include regulatory requirements and standards applicable.

Features of Environmental Audit

- Management tool
- Aim of environmental audit
- EIA Systematic process
- Documentation
- Periodic
- Objective evaluation
- Environmental performance

Objective of Environmental audit

- Determine and document compliance status
- Improve environmental performance
- Assist facility management
- Increase overall level of environmental awareness
- Development of environmental management control system
- Improve risk management systems
- Protect corporation from potential liabilities
- Develop a basis for optimising environmental resources.

Benefits of Environmental Auditing

- Improves efficiency of EMS
- Compliance with environmental laws and standards
- Risk mitigation
- Meeting stakeholder's expectations
- Reduction in operational inefficiencies
- Encourages continual improvement
- Compliance with certification requirements
- Employee awareness
- Helps management in decision-making

Types of Environmental Audit

- Environmental Compliance Audit
- Environmental Performance Audit
- Environmental Financial Audit

Environmental Compliance Audit

- Objective To provide assurance to organisational activities are conducted in accordance with environmental laws, standards, guidelines, policies.
- Criteria National law, International Agreements, Applicable Standards, Industry Guidelines or Corporate Policy.

Environmental Compliance Audit

Benefits:

- > Helps in ensuring compliance with laws.
- ➤ Reduces risk / costs with non-compliance.
- Gap between promises and results.
- > Pollution & Waste reducing, conserving resources.
- > Helps in improving Environmental Performance.

Environmental Performance Audit

- Objective To assess whether an organisation meets its environmental objectives, is effective in producing environmental results with efficiency and economy.
- Criteria Indicators prescribed by professional institutes, Govt. / NGO, academic literature or Environmental Organisation.

Environmental Performance Audit

Benefits:

- ✤ □Health & Safety Audit □ Site Audit
- ✤ Activity Audit
- ✤ Process Audit □Product Life Cycle audit

Environmental Financial Audit • Benefits:

International Auditing Practices Statement (IAPS) 1010. Environmental Matters affect financial statements.

Initiatives to prevent damage to Environment.

- Consequences of violating laws.
- Consequences of damage to resources.
- Consequences of vicarious liability levied by law.

Environmental Audit Process

Stage - I Pre-audit / Planning stage

- Collection of data
- Define objectives of audit
- Define scope
- Choose criteria
- Select the team members
- Develop audit plan and protocols
- Address On-site needs

Environmental Audit Process

Stage-II Onsite / Field Audit

- Opening conference
- Facility tour
- ✤ Site/facility inspection
- Evidence
- Records/document review
- Staff interviews
- Initial review of findings
- Closing/exit conference

Environmental Audit Process Stage-III Post Audit

- Final evaluation of findings
- Drafting of preliminary audit report
- ✤ Approval of the management
- Holding of exit conference
- Discussion on recommendations, if any
- Preparation and submission of final report

Stage-IV Follow up / Review stage

EAR

- Contains findings / results / recommendations
- Concise & informative easy to interpret & understand
- Auditor ensures accuracy of data

Contents of report

- Executive Summary
- Introduction
- Objectives
- Scope
- Criteria
- Approach & methodology used
- Evidences used
- Findings (Elaborated in next to next slide)
- Conclusion
- Recommendations
- Signatures of auditor with date

Tools & Techniques Used

- Checklist
- Questionnaires
- Questioning
- Observation
- Photographs / Electronic data
- Research

June 3: Environmental Audit: 10:00 am - 12:00 noon

Environmental audit (EA) is defined as basic management tool which comprises a systematic, documented, periodic & objective evaluation of how well SRMIST can reduce its pollution and waste to improve the environmental performances. EA is an exercise which generates necessary information on analysis of pollution generated or will be generated and completion of annual eastimate. EA has 3 phases 1. Pre audit activity- pertaining to collection of information. 2. Activity at site pertaining to evaluation of information collected. 3 Post audit activity pertaining to drawing conclusion and identifying areas of improvement to achieve compliance of standards and establish a report with regulatory bodies for implementation of environment management policies.

Each faculty will nominate 3 volunteers/department to do the Environmental Audit

Assemble in front of Library for instruction on June 3

Audit will be done in three places

- 1. Java Green
- 2. UB building shopping mall
- 3. Medical Hospital canteens

The degradable and non-degradable waste will be segregated and weighed to calculate the percentage and documented. The findings will be evaluated and follow up actions will be recommended to reduce the waste.

ANNEXURE II

What are Seed Balls?



A pile of seed balls.

What are seed balls and seed bombs?

A seed ball (or seed bomb) is a seed that has been wrapped in soil materials, usually a mixture of clay and compost, and then dried. Essentially, the seed is 'pre-planted' and can be sown by depositing the seed ball anywhere suitable for the species, keeping the seed safely until the proper germination window arises. Seed balls are an easy and sustainable way to cultivate plants in a way that provides a larger window of time when the sowing can occur. They also are a convenient dispersal mechanism for guerrilla gardeners and people with achy backs.



A seed ball before the storm.

History

Seed balls have been used by the Ancient Egyptians to seed the receding banks of The Nile after annual floods. They have been used in Asia especially in arid regions, because of their ability to keep the seeds safe until conditions are favourable for germination, and the ease at which they can be distributed. In the 1700's, West African slaves, predominantly women, were brought in to cultivate rice using a seed ball technique that was used in Africa. Rice seeds were coated in clay, dried, and pressed into the mud flats with the heel of the foot. This served two purposes, protecting the seed from the birds, and also preventing it from floating off when the fields were flooded. I am surprised that this is not mentioned more in the online seed ball literature. I plant to write a more lengthy post about it soon.



A pumpkin seed ball growing in our lab.

More recently, Japanese agricultural renegade, Masanobu Fukuoka, began exploring the use of seed balls (nendo dango in Japanese) to help improve food production in post WWII Japan. His research and outreach efforts has brought the seed ball back into the public eye. Today, seed balls are fun for green-minded kids and adults, and are also an important tool of the guerrilla gardening movement.



Seed Ball Anatomy

Anatomy of Our Seed balls

Our seed balls/seed bombs are individually made in our Pennsylvania greenhouse. I like to think of them as the Ferrari of seed balls. They contain a combination of mineral soil and three types of compost. Depending on the size and requirements of the plants, seeds are either mixed in with the soil before the seed balls are made or placed individually within the moist seed ball and carefully hand roll each seed ball until it's just right. The seed balls are then air-dried, providing a safe haven for its contents until germination. The seed balls are packaged in a small recyclable brown paper bag. Nothing fancy, nothing that leaves an unnecessary footprint.



How to sow seed balls & seed bombs:

Press them gently on the soil, about 2/3 of the way down. For added fun, throw them along the road, use a slingshot, or a boilie thrower.

Why our seed balls are special

- We test our seeds for germination and make certain that our seed balls have excellent viability when the environment is favorable.
- Our seed ball matrix is designed by Dr. Blake Ketchum and Biologist, Brian Moyer. Blake's got a PhD in Soil Science and is nuts about soil and plants, Brian has totally got the mad experimental scientist thing going on!
- We use 3 kinds of compost to super charge our seed balls for all the nutritional requirements of your plants.

Guerrilla Gardening Etiquette

- Don't sow in others' gardens or crops.
- Never plant invasive species.
- Don't disturb pristine or vulnerable ecosystems with non-native species
- And... don't throw seed balls at siblings or animals or people, vehicles, buildings, etc.

ANNEXURE III

Gallery of Terrace Garden Maintained by Dr. Leenus Jesu Martin



Bitter Guard Plant

Overview of Terrace Garden

Lemon Tree







Aloe Vera

Pot stands

Tomato Plant



Spinach



Guava Plant



Chilly Plant



Mint



Pineapple Plant



Snake gourd