

EARTHY-WORTHY

JANUARY-MARCH'2019

DEPARTMENT OF ENVIROMNETAL
SCIENCE AND TECHNOLOGY



MESSAGE FROM HOD'S DESK

Dr. Snehal Lokhandwala

“Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it's the only thing that ever has”

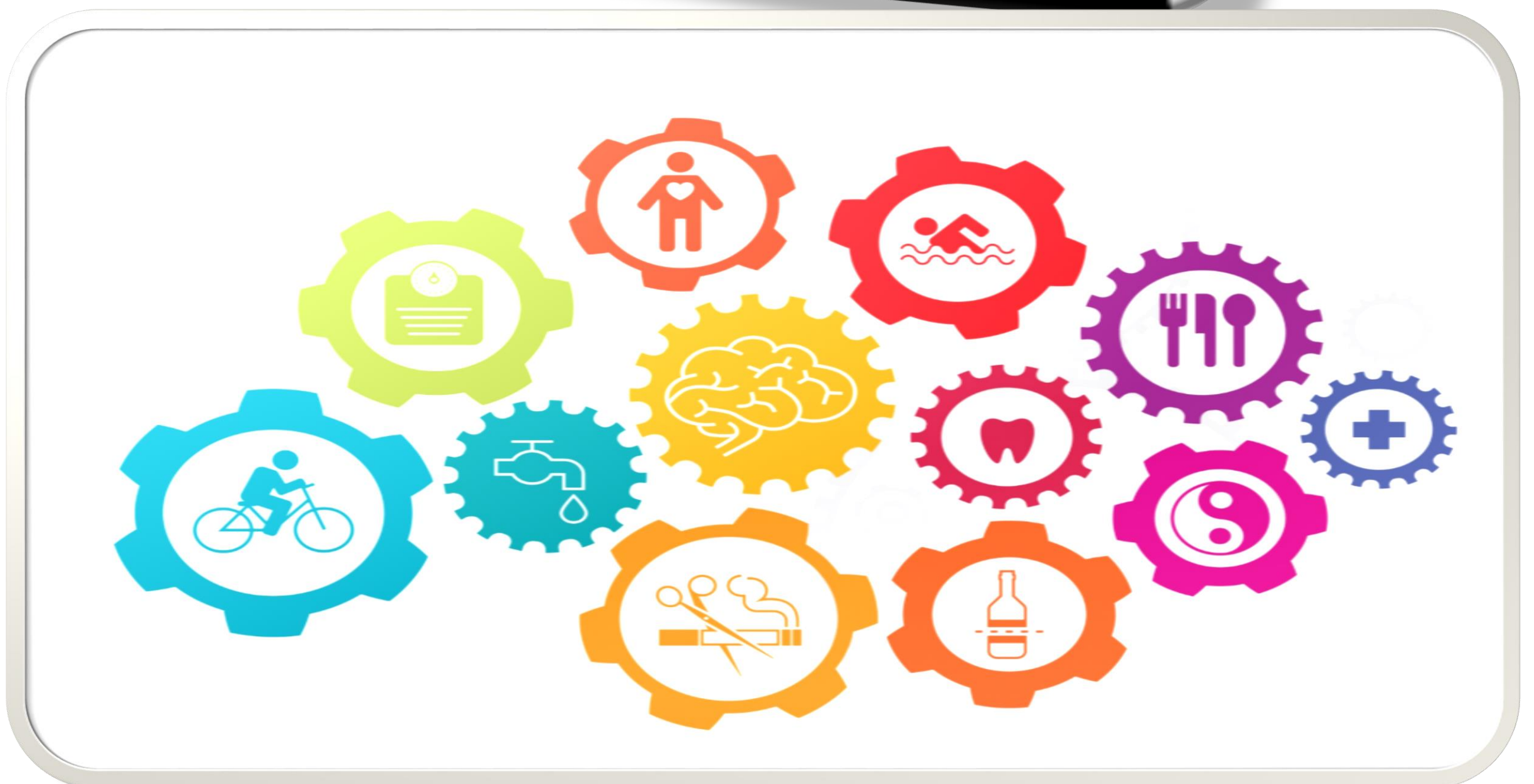


Margaret Mead has rightly quoted the above lines and we are that small committed group of environmentalists who believes that our globe is under new dramatic environmental pressure: our globe is warming, our ice caps melting, our glaciers receding, our coral is dying, our soils are eroding, our water tables falling, our fisheries are being depleted and our remaining rainforests shrinking .

In recognition of the interdisciplinary nature of these challenges, the mission of Environmental Science & Technology Department is to equip the students with deep knowledge and enabling them to contribute to world-leading research and specialized professional practice that helps protect human health, welfare and the environment. The approach of the department is to make the learning process for the students interesting and participative with experiential learning and strong emphasis on practical education, and exposure to real time scenarios through strong industry interface.

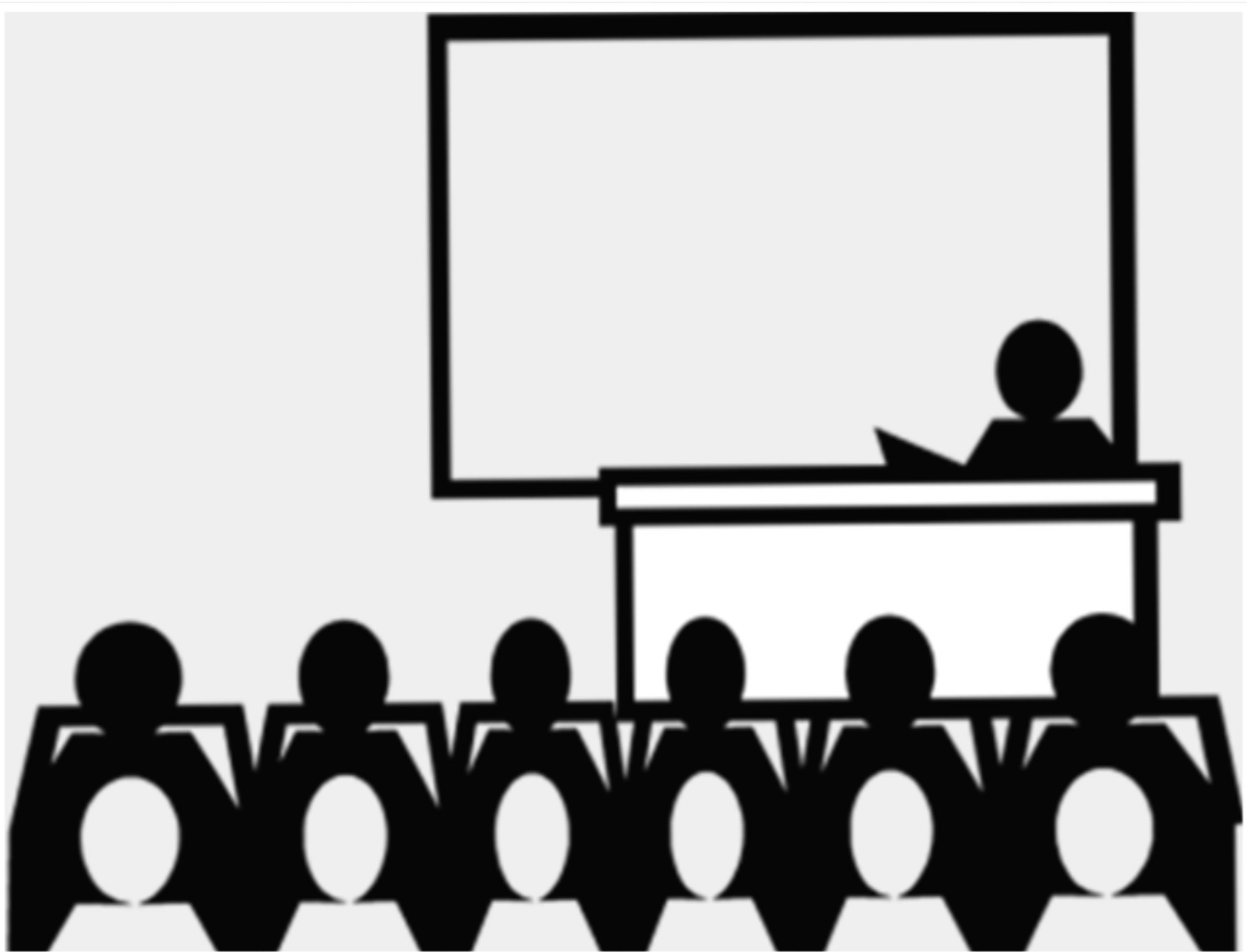


DEPARTMENTAL



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EXPERT LECTURES



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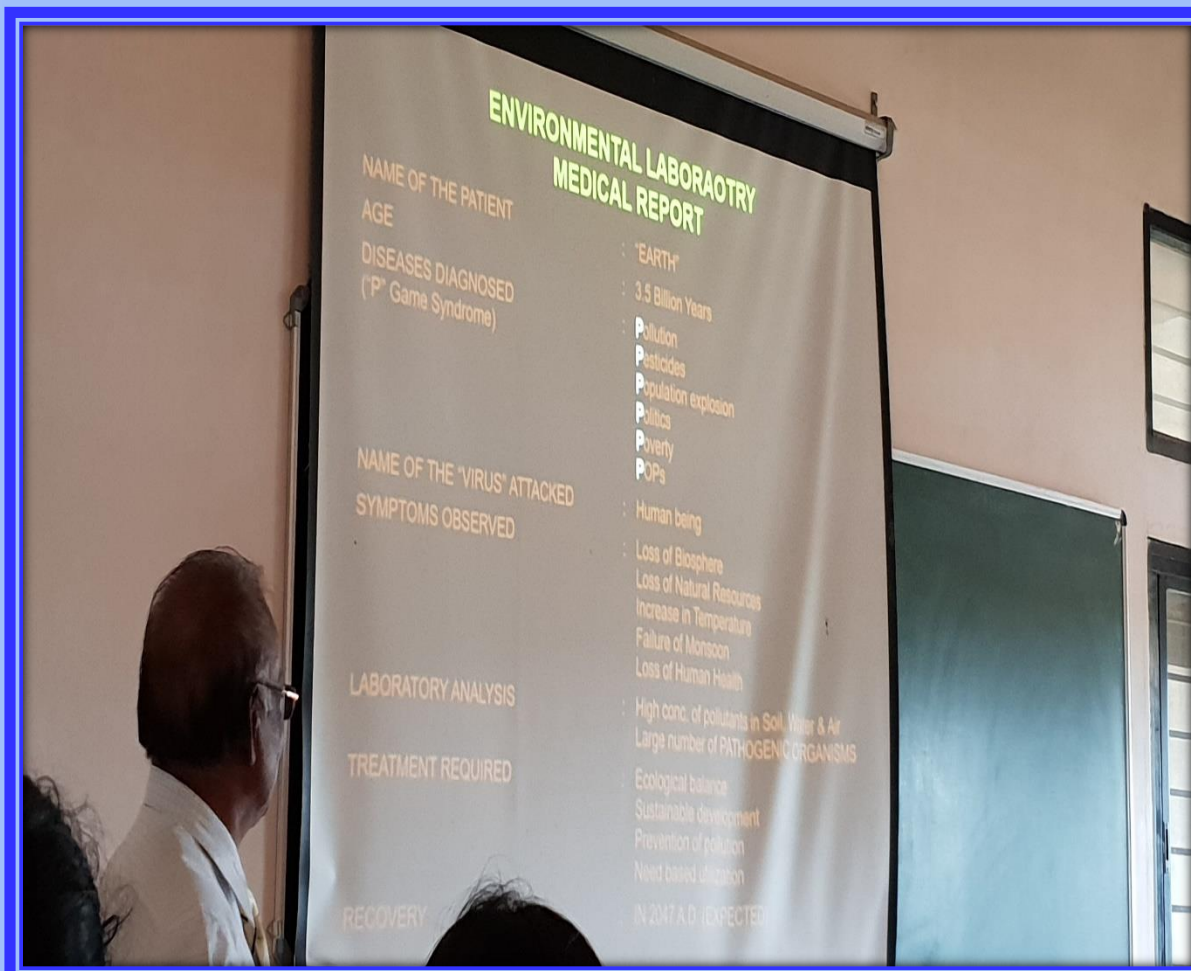


EXPERT LECTURES

Sr. No.	Semester	Name of Expert	Designation of Expert (With name of industry)	Correlated subject	Date
1	8	Dr. Dhriti Bhattacharjee	Ph. D. Communication	General	18/12/18
2	8	Mr. Dilip Udas	Director, R&D, Ultra Conserve Pvt. Ltd. Pune	General	26/12/18
3	6	Dr. Sushil Kumar	GM, RIL	Unit Operations	24/12/18
4	6	Mr. Deepak Gadhia	Chairman (sunrise CPS India pvt ltd)	General	04/01/19
5	6	Mr. Udhas Parlikar	Global Consultant	SHWCT	17/01/19
6	6	Mr. Alokkumar	Managing Director, NCTI	EM-II	19/01/19

Sr. No.	Semester	Name of Expert	Designation of Expert (With name of industry)	Correlated subject	Date
7	8	Mr. Alok Kumar	Managing Director, NCTL	EM-III	19/01/19
8	8	Mr. Snehal Tralsawala	Prism Consultancy	Safety	25/03/2019
9	4	Mr. Snehal Tralsawala	Prism Consultancy	Safety	25/03/2019
10	4	Mr. Girish Purohit	Manager – E&RC, Sanofi, Ankleshwar	Legislations	05/04/2019
11	4	Mrs. Smita Shah	Freelancer	Management	06/04/2019
12	4	Mr. Vijay Ghadge	Retd. Scientist GPCB	Air Pollution	09/04/2019

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INDUSTRIAL Visit



Industrial Visits

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Sr. No.	Semester	Name of Industry	Correlated subject	Planed Date
1	Sem VIII	GIL Ankleshwar	SHE & EM-3	Ist week of Jan
2	Sem VIII	Spectrum Dye & Chemical Surat	MWSM	3rd week of Jan
3	Sem VIII	ETL/CPCB	LET	27/02/2018
4	Sem VI	Reva Protein	LET-II	23/02/2019
5	Sem VI	Sajjan India	EM-2	25/02/2019
6	Sem VI	Godrej Valia	LET	8/04/2019
7	Sem IV	Heranba Pvt Ltd Vapi	EM	Ist week of Jan
8	Sem IV	Amul Dairy, Anand	EB	2 nd week of Jan
9	Sem IV	Sanofi	LET	3 rd week of Jan

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GLIMPSES OF IV



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PROJECT

REVIEW

- Project Review of 8th semester EST was conducted on 22nd of January, 2019 by DEST faculty.
- Literature survey, Experimental work and Review paper were discussed in project review.
- Students performed well in the review and various suggestions were given by faculty to students for improving their project in a better way.



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“Awareness Session on Menstrual Hygiene”



Dept. of Environmental Science and Technology, SRICT in association with Rotary E-club of Ankleshwar green, Innerwheel club of Ankleshwar and ROTARACT club of SRICT, organized an Awareness program on Menstrual Hygiene under the project RED REVOLUTION on 13th Feb, 2019.

The chief speakers were Dr. Amisha Mehta and Rtn. Mrs. Geeta Srivatsan. The session was informative and an eye-opener regarding the alarming state of affairs right now. All girls and lady faculties of SRICT attended this programme.

The session helped bust some prevailing myths about Menstruation.

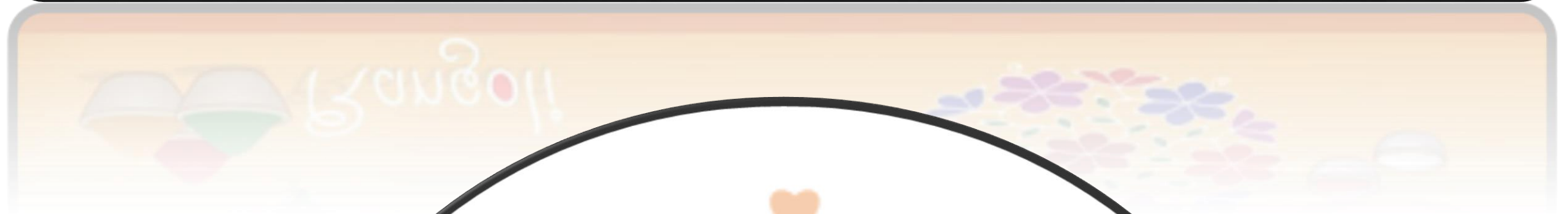
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Co-curricular Activities



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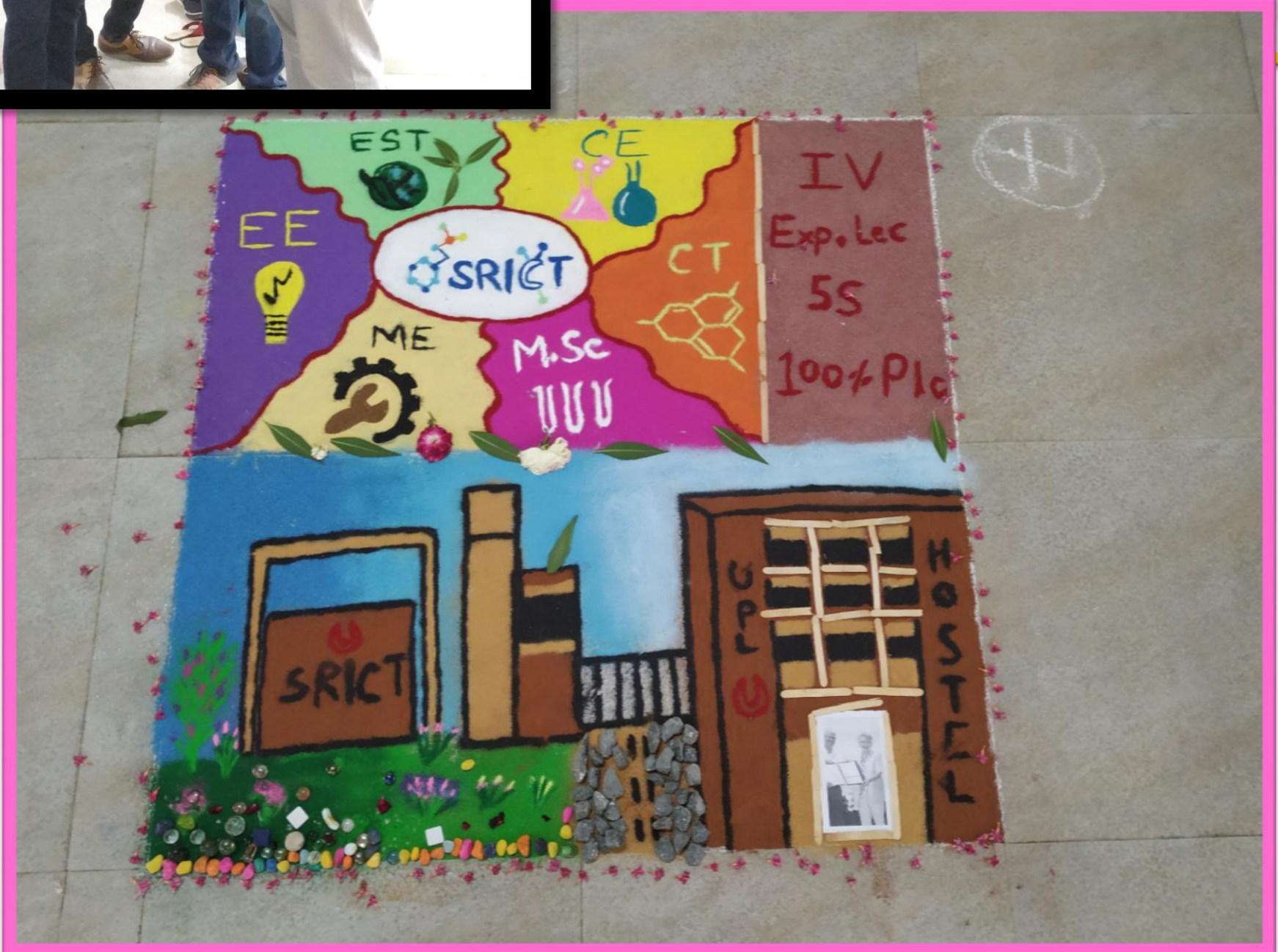


- Rangoli competition was organised on (2nd Wednesday of January) 09/01/2019 under the Co-curricular activity at SRICT HOSTEL by the ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPARTMENT.
- There were total 30 group participated each group consist 4 member in the. In the participant 3 groups were from Faculties (total 13). They have made Rangoli with different type of materials like Colour, Flowers, Stones and Clay on one of the following themes.
- Portrait of any legendary figure
- Any festival / cultural event
- Environment
- SRICT
- Vice principal (Dr. Snehal lokhandwala) was impressed with the work done by the students even he urged to increase the number of Prize so the efforts of students can be justified.

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LOGIC

MANIA

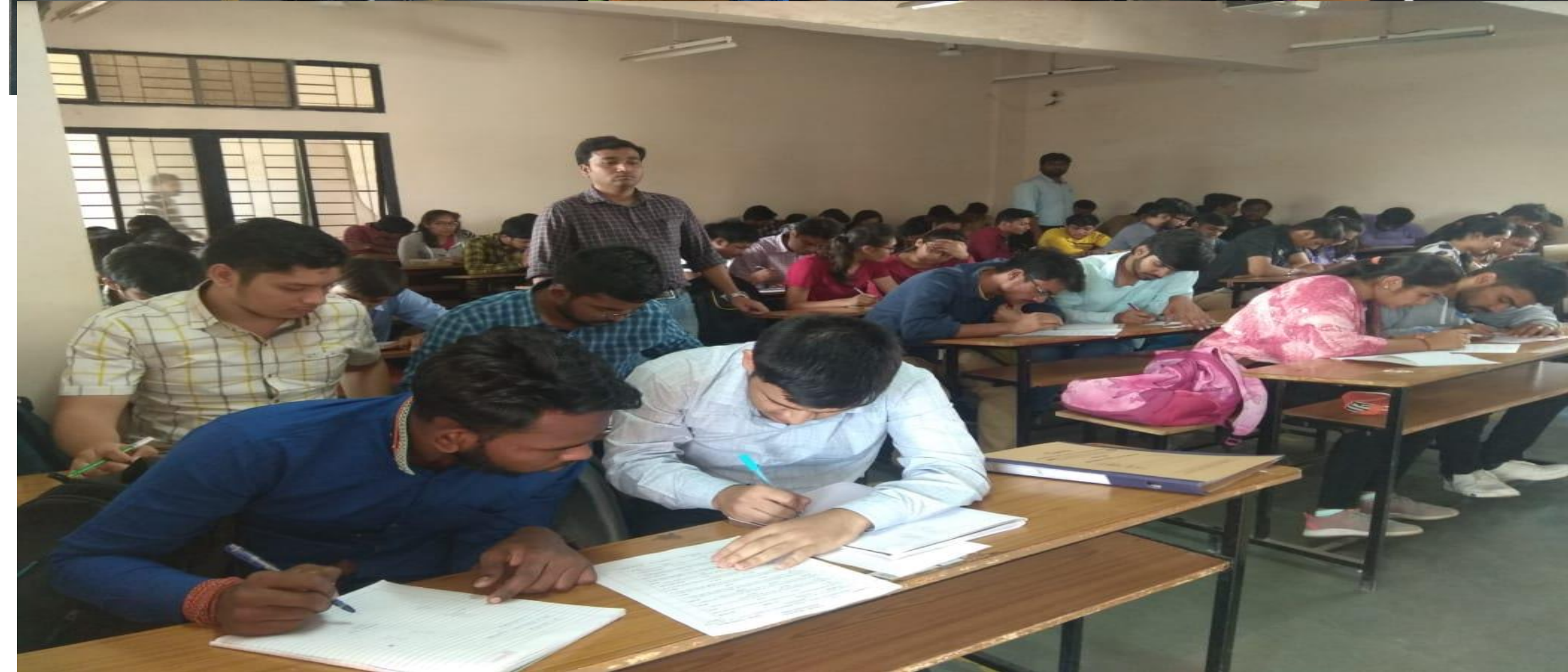


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- Event was organised as a part of cocurricular activity of SRICT organised by environmental science & technology department on 2nd February 2019.
- As a part of activity aptitude test was organised which consist analytical, logical and reasoning question total twenty question for 30 minutes. Total 180 numbers of students participated in the event. 4th semester - CT students Aditya Choumel and Savan Butani had won the event.

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ACTIVITIES

CLEANLINESS DRIVE



- *All students of semester-8 have participated in cleanliness drive. The cleaning has been started around 11:00 am to 12:30 pm. In which whole area along with the stretch from canteen to Biogas plant-2 have cleaned properly. During cleaning it has been taken in to consideration that health and hygiene of all students are not compromised.*



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• Quiz Competition Report

- The department of Environmental Science and Technology has organized a "**Quiz competition**" based on questions related to general knowledge, current affairs related to general science and environmental science and nature under the banner of **Nature Club** on 05/01/2019. The quiz was conducted in following three rounds:
- Screening round based on MCQs,
- Crossword and direct question/answer round
- Audio visual and quick fire round

Total 138 students (69 teams) from all the departments of SRICT actively participated in first round out of which, 16 teams were selected for second round on the basis of their score in MCQs.

- The second round quiz began with the introduction of all teams selected from first round. Before starting the quiz, faculty explained rules of the quiz competition. The second round consisted of two activities: Crossword and direct questions answers (visual, identification of personality, general knowledge and current affairs). From first activity, eight teams were screened and from second, 04 teams (three from CT and one from EST) selected for final round "The Intellectual Battle".
- The final round was held on 09/01/2019 in seminar hall 3. It was began with the introduction of all four teams and consisted of questions related to audio visual, personality identification and quick fire round. Before starting the quiz, all the rules were explained to participant teams. All teams named as HYDRO, LITHO, BIO and ATMO actively participated in all four rounds and scored well. At the end, ATMO team (EST Sem4) won the quiz competition by scoring 42 points and HYDRO team (CT Sem 4) got second position by scoring 32 points.

QUIZ COMPETITION





Presenting Your Ideas

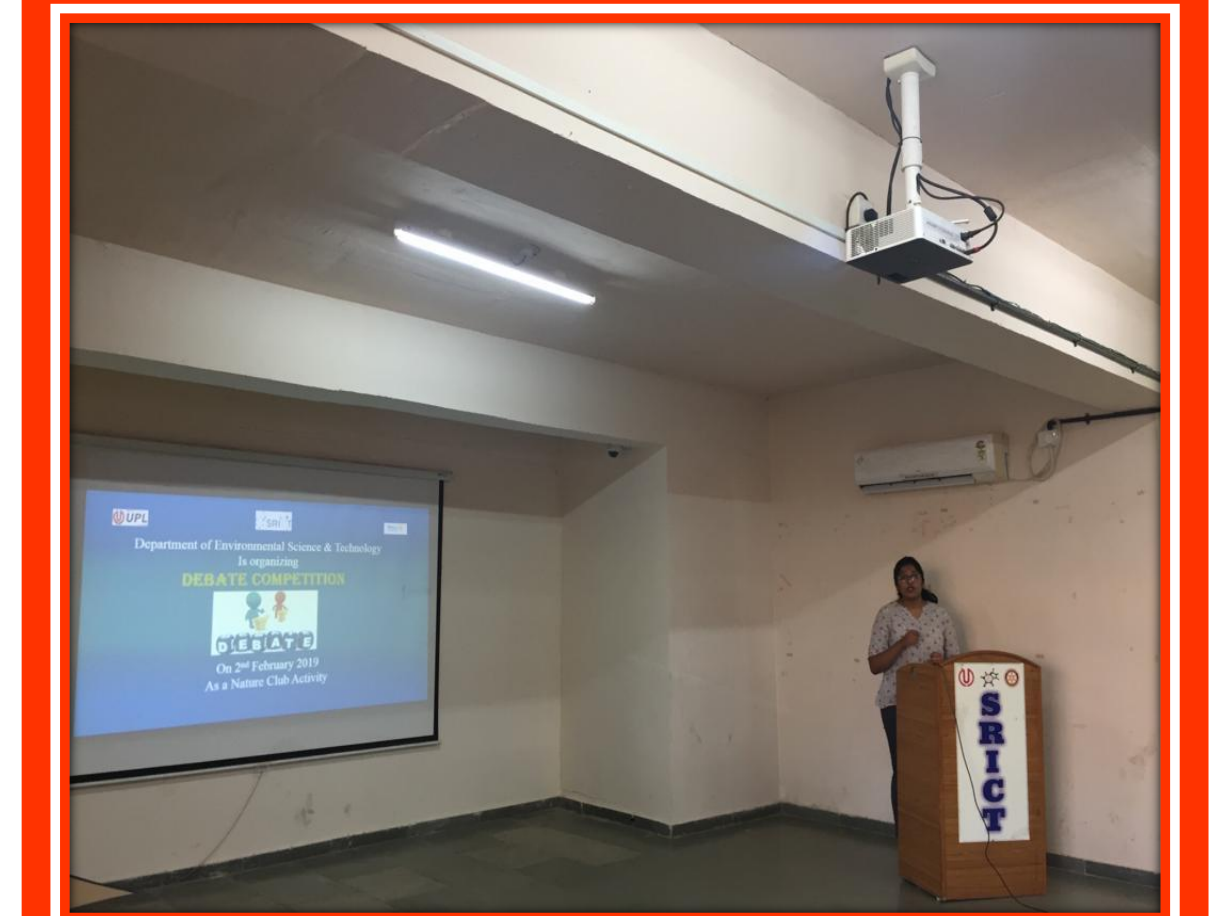
- ❑ *"Presenting idea competition" was organized by DEST under the banner of Nature club on 16th February 2019 at 3.00 PM at seminar hall 3. Total 9 teams participated in the "Presenting idea competition".*
- ❑ *In each team there were 4 members. Seven teams were from EST, one from CT and another one from CE. And the judges for the competition were Mr. Manojkumar and Mr. Urvij Dave from DEST. Team from DEST has secured first position.*





❖ Debate competition was organized by DEST under the banner of Nature club on 2nd February 2019 at 3.30 PM at seminar hall 3. Total 3 teams have participated in the Debate competition from SRICT. In each team there were 2 members. one team was from EST, one from CT and one from CE. And the judges for the competition were Ms. Akashleena Bhattacharya from MSH and Mr. Kartik Iyer from CT. Team from DEST has secured first position and team from CE has secured second position.





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❖ The Department of Environmental Science and Technology organized one day workshop on “Liquid Effluent Treatment and Necessary Analysis” on 29th January 2019. Total 25 students from KJ Polytechnic, Bharuch & faculty members participated. The main purpose of this workshop was to make the students aware of Basic & Practical applications of wastewater treatment in industry and train them so that they can be ready for industrial practical exposure. The theoretical & practical sessions were handled by Expert Faculty members from Department of Environmental Science and Technology.

❖ Students have given positive feedback regarding workshop and shown interest to attend other workshops which are going to be organized by Department of Environmental Science and Technology in future. At the end of workshop, certificates of participation were given to the all the participants.

WORK SHOP



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STUDENTS' ACHIEVEMENT



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RESULT HIGHLIGHTS

Sr. No.	Semester	Students having 8.5 to 8.99 SPI	Students having 9 to 9.49 SPI	Students having 9.5 to 10 SPI
1	3	2	8	-
2	5	8	6	6
3	7	17	10	1

10 POINTERS



ARPIT MEHTA from 5th SEM DEST



***BANSARI SHAH from 5th SEM
DEST***



- **ABHYUTHAN** (Student Felicitation Programme) was conducted by electrical engineering department for students of 2rd, 4th and 6th semester at Shroff Rotary Institute of Chemical TECHNOLOGY SRICT, on 20th September 2018 during which **45 students of Department of Environmental Science and Technology** got cash awards of **Rs. 36,000/-** .
- Students with spi between 8.5 to 8.99 were 21, with spi between 9.00 to 9.49 were 21 and with spi between 9.5 to 10 were 3. It was a platform which created motivation for the students of all semester to reach heights in their carrier.

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GLIMPSES OF THE EVENT



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RED REVOLUTION PROJECT AT ANDADA, GYANDEEP VIDYALA

- Dept. of Environmental Science and Technology, SRICT in association with Rotary E-club of Ankleshwar green, Innerwheel club of Ankleshwar and ROTARACT club of SRICT, organized an Awareness program on Menstrual Hygiene under the project RED REVOLUTION on 21st Feb, 2019 at Gyandeeep school, Andada for the students of 9th and 10th .
- The chief speakers were Rtn. Meera Panjwani, Rtn. Mrs. Geeta Srivatsan. The session was informative and an eye-opener regarding the alarming state of affairs right now for the students of 9th and 10th
- The session helped bust some prevailing myths about Menstruation.

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GLIMPSES OF THE EVENT



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Awareness Session on Waste Management

By

Department of Environmental Science & Technology
SHROFF S R ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY



Awareness Session Conducted at Gatu School, Ankleshwar



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Awareness Session Conducted at Priyadarshini School, Ankleshwar



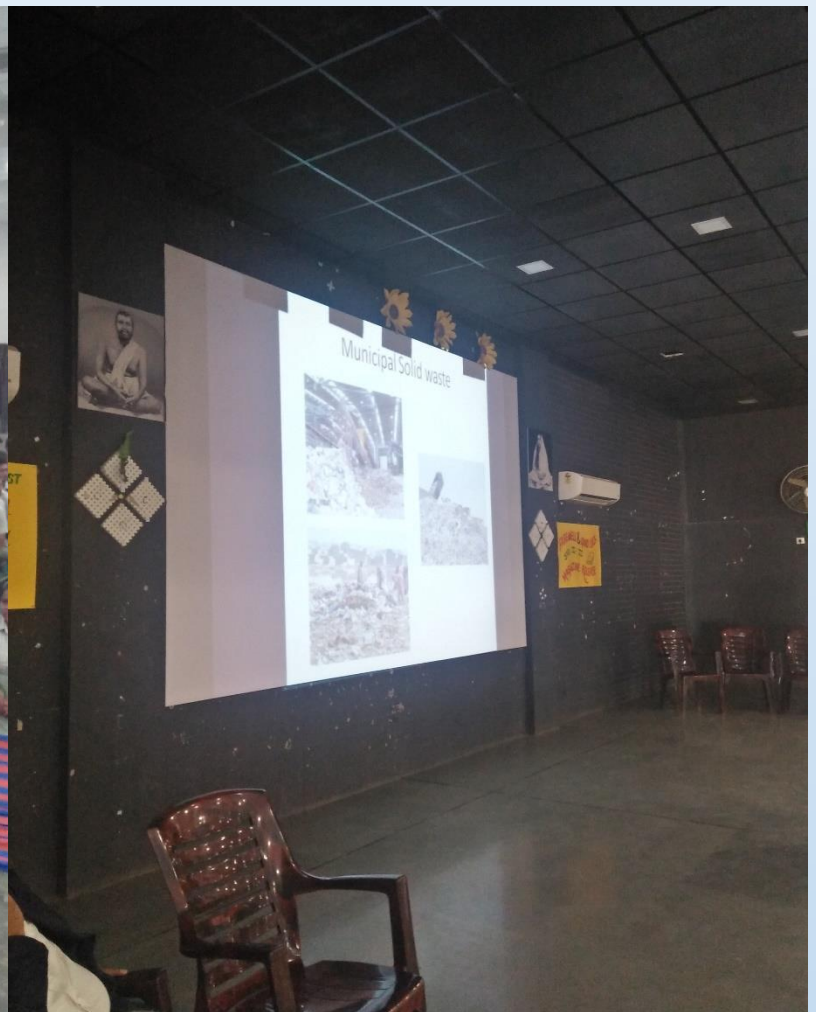
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Awareness Session Conducted at Shantanu School, Ankleshwar



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Awareness Session Conducted at SVEM, English Medium School



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India taking lead in setting timeline to eliminate single-use plastic: UN Environment acting head

Shilpy Arora | TNN | Mar 20, 2019, 20:49 IST



NAIROBI: UN Environment acting executive director Joyce Msuya congratulated Prime Minister Narendra Modi for taking the lead in putting a timeline to eliminate the consumption of single-use plastic by 2022. Still, the Indian government, she feels, needs to take tough decisions to confront the burning issue of air and water pollution.

Climate change affected fisheries globally: Study

IANNS | Mar 1, 2019, 20:09 IST



NEW YORK: Climate change has taken a toll on several of the world's fisheries, and overfishing has magnified the problem, researchers have warned.

The study, published in the journal *Science*, suggests that ocean warming has led to an estimated 4.1 per cent drop in sustainable catches, on average, for many species of

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Govt puts complete ban on import of solid plastic waste

Vishwa Mohan | TNN | Updated: Mar 7, 2019, 02:54 IST



A-

A+



NEW DELHI: Taking an important step towards tackling the menace of plastic waste in India, the government has completely banned import of solid plastic waste/scrap into the country. India generates 25,940 tonnes of plastic waste every day.

Earlier, such import was partly banned as India did not prohibit it in special economic zones (SEZ). Besides, import of plastic

Water quality of Ganga has worsened in 3 years, says study

Binay Singh | TNN | Mar 15, 2019, 10:06 IST



A-

A+



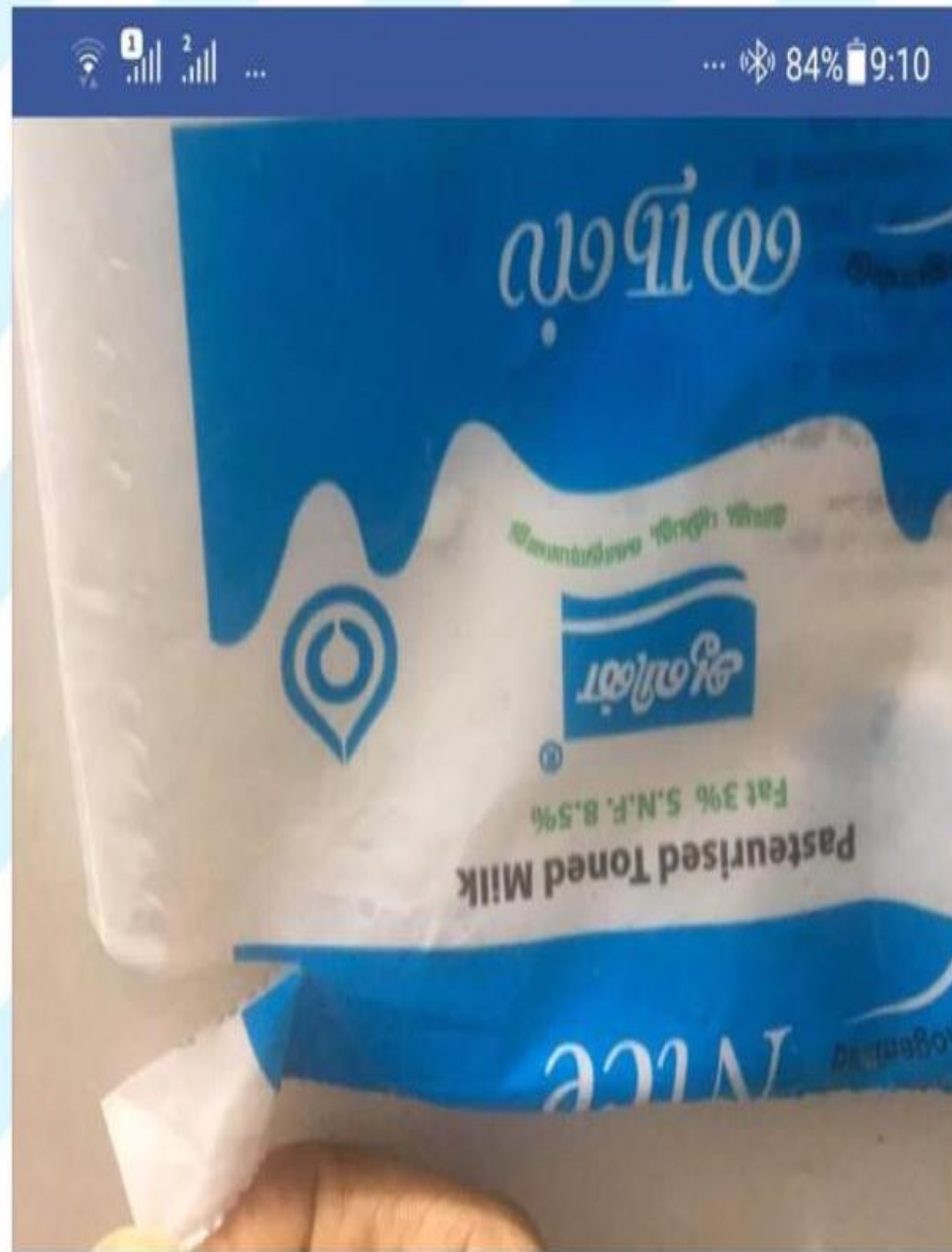
VARANASI: The Rs 20,000-crore "Namami Gange" project to "conserve, clean and rejuvenate" the Ganga river seems to have failed to achieve its target. On the contrary, analysis of data collected by the city-based Sankat Mochan Foundation (SMF) has revealed a significant rise in coliform

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If all of us open the milk packet without separating the piece we in Bengaluru alone can stop 50,00,000 small plastic pieces getting in the garbage. Small pieces cannot be recycled.

— **TEJASWINI ANANTHKUMAR**
CHAIRPERSON ADANYA CHETANA



Indubala Ashok Yesterday at 6:23 AM · 🌐

For those who still consume milk and for those who are not doing this yet, please do not snip off and throw away the corners of milk sachets. These small plastic particles are the most dangerous as they escape even sophisticated filters and enter the food chain, earth, waterbodies. Your daily milk sachets triangular miniscule corner may have killed a few sea creatures and blocked easy flow of water somewhere. It will take a 1000 years or more to disintegrate. Would you want that? Cut plastic sachets as shown in the pic. Milk CAN be poured out without spillage and these sachets ARE recyclable if done responsibly. This applies to ALL plastic sachets. It is never too late. Start today.

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BEST
teachers teach
from **THE**
not from the
BOOK.



A teacher takes
a Hand, opens
a Mind and
touches a Heart



**A good
teacher is like
a candle – it
consumes
itself to light
the way for
others**



The heart of a university and any department is the

FACULTY

This should be the most important consideration for a student choosing a college. Our department is endorsed with highly qualified faculty having scientific vigor and committed to excellence.



- **Name:** Mr Urvij B Dave
- **Assistant Professor**
- **Qualifications:** B.E Chemical Engg
- M.E Environmental Engg
- (First Class with Distinction)
- **Experience:**
 - Teaching : 6.3 Yr
 - Industry : 5 yr
- **Area of Interest:** EIA, Energy Audit, Air Pollution, ETP Design
- **Papers Published/ Presented :** 12



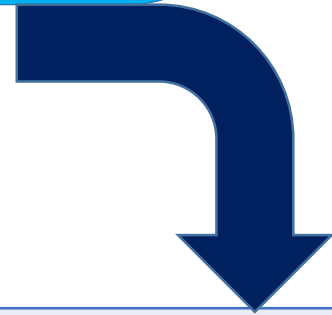
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HAPPY
BIRTHDAY

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STUDENT BIRTHDATES



JADAV ISHA PRADEEPAKUMAR

JOSHI SHIVANI DILIPBHAI

KALE PRASAD VILAS

LAD MITULKUMAR

MANISHKUMAR

PARMAR HARSHVARDHANSINH

KALPESHKUMAR

SAHADADPURI URVASHI

KAMLESHKUMAR

SHAH SHREY SANDIPBHAI

ADWAITHA

CHANDEL NITU

DRASTI S CHAUDHARI

KAPADI MOHIT CHANDRASHEKHAR

MEHTA ARPIT

PATEL SALONIKUMARI

SHAH BANSARI

SINGH JUHITA

SOLANKI DIGVIJAYSINH

PRAVINSINH

THUMAR KRUTI

BHATT MAITRI SHANKARKUMAR

CHOKSI MIRIL MAHESHKUMAR

JAGANI JANKI CHIMANBHAI

KHER HARDIPSINH RAJENDRASINH

NAIK HETA AMITBHAI

PAREEK AISHWARYA BHARATKUMAR

PATEL JIRAL KANTIBHAI

PATEL SMEET KALPESHBHAI

BARAD VISHWAJEET

BORKHTRIYA VIJAY JAGMALBHAI

PALAK SAXENA

PATEL MITULKUMAR PRAKASHBHAI

PATEL NIKITA RAJESHBHAI

PATEL PRIYANKABEN RAJESHKUMAR

SOLANKI PIYUSHKUMAR CHANDUBHAI

SUNVA SHRADDHAKUMARI

HARENDRASINH

VIBHUTIBEN DELWADIYA

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BOOK
CHAPTER

Bio-Drying of Solid Waste

Rucha V. Moharir, Rena, Pratibha Gautam, and Sunil Kumar

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7.1 Introduction

Biodegradable waste is bio-dried to remove the moisture from the waste stream; as a result, its weight is reduced (Choi et al., 2001). Bio-drying processes are achieved by the drying rates that are amplified by using biological heat and by adding required aeration. The biologically heated major portion, available naturally by means of aerobic degradation of organic matter, is used to evaporate bound and surface water that is combined with mixed sludge. This generated heat assists in reducing the biomass moisture content without any additional fossil fuels and with negligible electricity consumption (Navaee-Ardeh et al., 2006). It takes a minimum of 7–8 days to dry the waste by this method (Sugni et al., 2005). This allows reduced cost for

3

Modern Energy Recovery from Renewable Landfill or Bio-Covers of Landfills

Rena, Pratibha Gautam, and Sunil Kumar

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3.1 Introduction

The stream of garbage generated from households and businesses and collected by the municipal corporation, the department of public works, or

Energy-Aware Intelligence in Megacities

Pratibha Gautam¹, Sunil Kumar², Snehal Lokhandwala¹

¹Department of Environmental Science & Technology, Shroff S.R. Rotary Institute of Chemical Technology, Ankleshwar, India; ²Solid and Hazardous Waste Management Division, CSIR – National Environmental Engineering Research Institute, Nagpur, India

1. Introduction

The major input for the economic development of any country is energy. Globally, the energy sector has acquired major importance for developing countries due to ever-increasing energy needs and the huge capital investment needed to meet it. Energy resources have enlightened our residence and work places, enhanced economic growth, provided mobility and comfort, and made essentials available. The industrial revolution was the transition from manual labor intensive jobs to energy-driven technologies. Formerly, there were abundant energy resources, and concern for their availability and use was very little, but now the gap between available energy supply and demand is increasing rapidly. The reasons behind this imbalance can be population growth, luxury in living standards, uncalculated usage, technological advancements, etc. To minimize the gap the options available may be reducing consumption of energy through economic constraints, technological advancements to increase energy supply, and alternate resources of energy like various renewable energy forms and converting solid waste to energy, which are more sustainable. An associated concern with using the present energy resources is the environmental consequences, which directly correspond to the usage of primary energy resources. Technology that can make use of alternative renewable resources seems to be the only future remedy for sustainability.

1.1 General Requirements of Energy

Societal and regional variations play an important role in energy demand, and high energy consumption is usually attributed to high standards of living in developed countries. Although the majority of the world's population (around 80%) is settled in developing countries, their energy consumption is 40% of the world's total energy consumption.

Waste Treatment Processes/Technologies for Energy Recovery

Rucha V. Moharir¹, Pratibha Gautam², Sunil Kumar¹

¹*Solid and Hazardous Waste Management Division, CSIR — National Environmental Engineering Research Institute, Nagpur, India;* ²*Department of Environmental Science & Technology, Shroff S.R. Rotary Institute of Chemical Technology, Ankleshwar, India*

1. Introduction

1.1 Worldwide Scenario of Waste Management

During the period of 2001–07, the capacity for waste-to-energy (WTE) conversion was increased to about 3 million metric tons per annum. Some fluidized-bed combustion units for solid waste were installed by Japan and China. China had more than 434 WTE plants by 2016. Japan is known for using the most thermal treatments of municipal solid waste (MSW) in the world [1]. Nowadays new technologies are being adapted for MSW treatment, such as oxygen enrichment technology. Some thermal plants are based on unique technologies such as the melting technology process, direct casting, fluidization processes, and gasification processes [2]. In 2015, a company in Greece tested the potential of a certain system that generated approximately 24 kW of electricity and nearly 26 kW of heat from wastewater [3]. The first energy bioscience center is operating in India, which was established for the purpose of reducing the country's fossil fuel need and greenhouse gases [4].

Treating solid waste in an environmentally sound way is a challenge for developing as well as developed countries. Widely utilized treatments for solid waste include incineration and landfilling. Incineration is directly related to the amount of trash generated. Burning of MSW is a very old practice, in use since the 1880s. But since then the environmental hazards [5] have been noticed and a major focus has been placed on the gases released from the burning of MSW in incinerators, including dioxins, furans, nitrous oxides, and others [6,7]. In the search for the most reliable and environmentally friendly treatments, the environmental merits of reusing and reprocessing the resources have become an area of great concern. There are certain methods by which the WTE concept can be achieved, which will reduce the burden of MSW on the environment and help turn

Landfill Gas as an Energy Source

Rena¹, Pratibha Gautam², Sunil Kumar¹

¹Solid and Hazardous Waste Management Division, CSIR — National Environmental Engineering Research Institute, Nagpur, India; ²Department of Environmental Science & Technology, Shroff S.R. Rotary Institute of Chemical Technology, Ankleshwar, India

1. Introduction to Landfill

An important constituent of integrated solid waste management is safe and dependable long-term dumping of solid waste [1]. Since the primitive era people have been disposing of waste on the land. With the passing of time, the population increased and society began to expand, and along with the increasing population the amount of solid waste also increased, thus creating glitches in the management and disposal of waste [2]. The piling of waste on land has always brought questions of land encroachment, health issues, and esthetic value. This condition leads to design innovations for landfills. Landfilling is a simple and cost-efficient technique, so it is the most-used practice for municipal solid waste (MSW) disposal [3,4]. In Asian countries, for example, China, 77% of the total MSW is treated in 476 large- and medium-scale waste-to-energy plants. MSW is highly heterogeneous in nature, containing different types of waste. These wastes get disposed of, and thus the landfill becomes a hub of availability of the different types of materials. Even after the long term of deposition, due to the availability of massive materials near about 60–80% of total fresh waste gets accumulated in landfills [5–11]. Although many options are available for waste-to-energy conversion of MSW, waste is still diverted to the land.

1.1 Essential Components of Landfill

The basic concept of a secure landfill is a properly designed landfill that can restrict the contact of trash and its subsequent seepage into the ground with the underlying aquifers. In general, leakage through the base of the landfill is unavoidable but can be reduced to practically zero. The essential components of the secure landfill are a bottom liner/liner system, waste disposal cells, leachate collection system, cover system, and gas recovery system (Fig. 6.1).



Achievements



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Dr. Snehal Lokhandwala was invited as chief guest in Swami Vivekananda English Medium School, Ankleshwar for delivering motivational speech for the students of 10th and 12th on 6th February 2019.

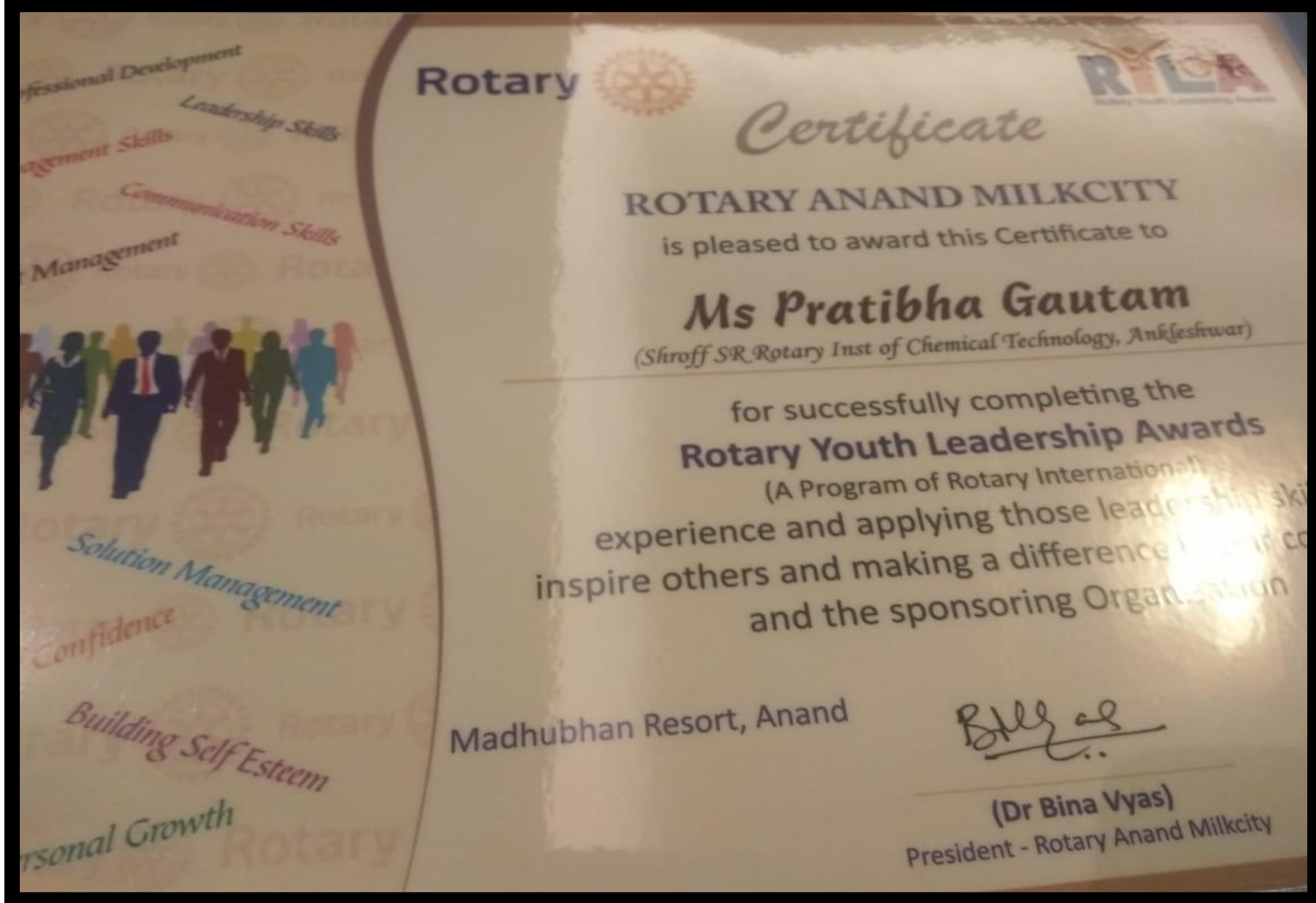


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Ms. Pratibha Gautam attended two days Training Programme held during 10-11 January 2019 on " EMPOWERING YOUNG PROFESSIONALS AS POTENTIAL LEADERS " organized by Rotary Anand Milkcity.



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Faculty wise research papers done & projected

Sr. No.	Name of Faculty	No. of Research papers published before joining SRICT	No. of Research Papers published after joining SRICT	No. of Research papers projected in 2018	No. of Research papers published in 2019	Book chapter published after joining SRICT
1	Dr.Snehal Lokhandwal a	2	16	08	08	01
2	Mr. Urvij Dave	6	6	02	1	
3	Mrs. Pratibha Gautam	2	8	03	1	5 in 2019
4	Mr. Manoj Kumar	0	8	04	03	
5	Mrs. Janki Tailor	0	1	02	01	nil
6	Mr. Kunal Majmudar	1	11	03	01	
7	Ms Anjali Nair	1	3	03	05	
8	Mr Niraj Nair	01	04	02	00	
8	Miss Bhasha Mehta	03	00	02	00	
	TOTAL	14	57	29	20	67

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THE WORLD

WITHOUT US

A close-up photograph of vibrant green leaves and thin branches, likely from a tree, filling the upper half of the frame. The leaves are serrated and have prominent veins. The background is a soft, out-of-focus green.

CREDITS

Dr. Snehal Lokhandwala (Head- DEST)

Mrs Pratibha Gautam (Assistant professor - DEST)

Ms. Bhasha Mehta (Assistant Professor – DEST)

WE SHARE BECAUSE WE CARE

A photograph of a dense forest with tall trees and a path leading through them. The scene is captured in a slightly blurred, artistic style with a dark, moody atmosphere.

**We won't have a society if
we destroy the environment.**

Margaret Mead