



SANTOSH
Deemed to be University



SDG 7
AFFORDABLE AND
CLEAN ENERGY

Sustainable Development Goal (SDG) 7, which focuses on ensuring access to affordable, reliable, sustainable, and modern energy for all which can be pursued through a combination of research, infrastructure development, and community engagement. Santosh University adheres to SDG 7 through activities include:

1. **Renewable Energy Integration:** Santosh University has installed solar panels on campuses to reduce dependence on fossil fuels and promote clean energy use.
2. **Energy Efficiency Initiatives:** Implemented energy-saving measures like LED lighting, energy-efficient HVAC systems, and sustainable building designs to minimize energy consumption.
3. **Research and Innovation:** University leads cutting-edge research on renewable energy technologies, energy storage and energy efficiency solutions, providing innovations for global energy challenges. At present University has 3 research projects which aligns to SDG 7 which is published in SCOPUS indexed journals.
4. **Education and Awareness:** University offer courses, seminars, and workshops on sustainable energy, climate change, and energy policies to raise awareness and inspire students to take action.
5. **Community Outreach:** Santosh University through its Family Adoption programme, Satellite Centres and Community programs provides awareness on energy conservation through different outreach programmes every year.
6. **Sustainable Campus Operations:** Santosh University follows sustainable practices in campus operations, such as energy-efficient transportation options (electric vehicle charging stations) and waste-to-energy systems.



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SDG 7.1

RESEARCH ON CLEAN ENERGY

7.1.3 Affordable and Clean Energy: publications



Santosh (Deemed to be) University

No.1, Santosh Nagar, Ghaziabad, UP, India © 60172682

499

Documents ⓘ

343

Authors

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Structure

Collaborators

New

Sustainable Development Goals 2023

New: See at one glance Sustainable Development Goals mapped to this organisation

Sustainable Development Goals (SDGs) are specific research areas that are helping to solve real-world problems. Elsevier data science teams have built extensive keyword queries, supplemented with machine learning, to map documents to SDGs with very high precision. Times Higher Education (THE) is using Elsevier SDG data mapping as part of its Impact Rankings. [More about SDGs](#)

[Back](#)

3 documents for **Affordable and clean energy**

Review

Exploring Cutting-Edge Approaches in Anaerobic Digestion and Anaerobic Digestate Management

Mariappan, I., Prabhakaran, R., Vivekanand, V., ...Regurajan, R., Subramanian, V.

ChemBioEng Reviews, 2024

Short Survey

Regenerative potential of stem cells derived from human exfoliated deciduous (Shed) teeth during engineering of human body tissues

Fuloria, S., Jain, A., Singh, S., ...Salile, S.S., Fuloria, N.K.

Current Stem Cell Research and Therapy, 2021

Article

Association of second hand smoke and biomass cooking fuel with the tuberculosis: A case-control study from southern haryana, india

Goyal, V., Singh, A., Gupta, V., ...Goel, P.K., Agrawal, D.

Journal of Krishna Institute of Medical Sciences University, 2021

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SDG 7.2

AFFORDABLE AND CLEAN ENERGY

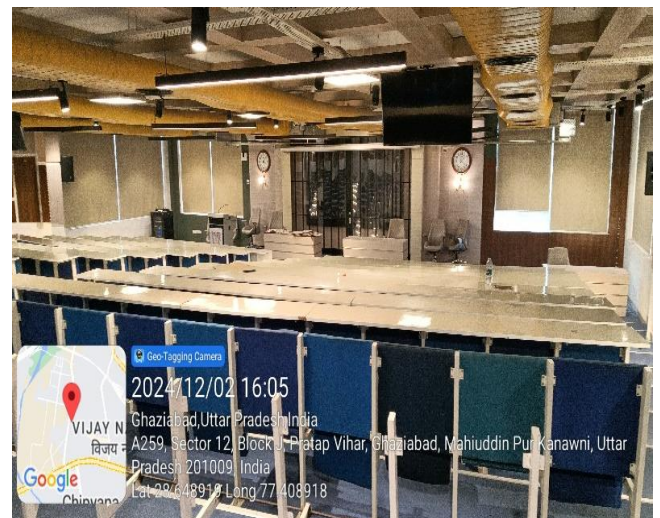
7.2.2 Upgrade Buildings to Higher Energy Efficiency

Santosh University conducts regular energy audits to assess the energy consumption of buildings and identify areas for improvement. These audits help pinpoint inefficiencies in insulation, heating, cooling, lighting, and appliances. The University implements several energy efficient technologies like upgrading ventilation and air conditioning systems to more energy-efficient models that optimize temperature control while minimizing energy waste, replaced traditional lighting with energy-efficient LED lights, which use significantly less energy and have a longer lifespan and Integrated smart energy management systems that use sensors, AI, or IoT technology to automatically adjust lighting, heating, and cooling based on occupancy and environmental conditions.

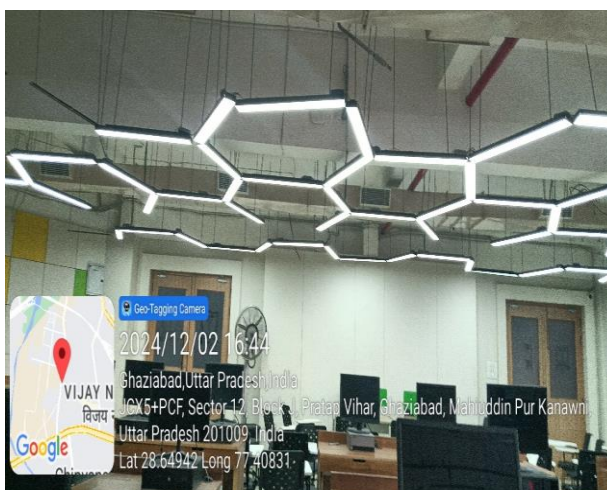
University has installed solar panels on buildings to generate renewable energy and reduce dependence on the grid. The University buildings are designed with energy-efficient standards and awarded as **Clean and Green Campus** and **Energy Efficient campus**.



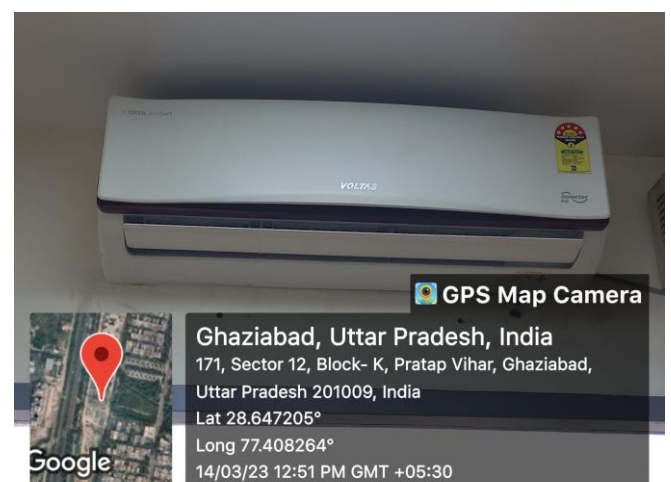
SOLAR PANEL



SENSOR BASED LED LIGHT



LED BULBS



Power efficient items like AC

7.2.3 Carbon reduction and emission reduction process

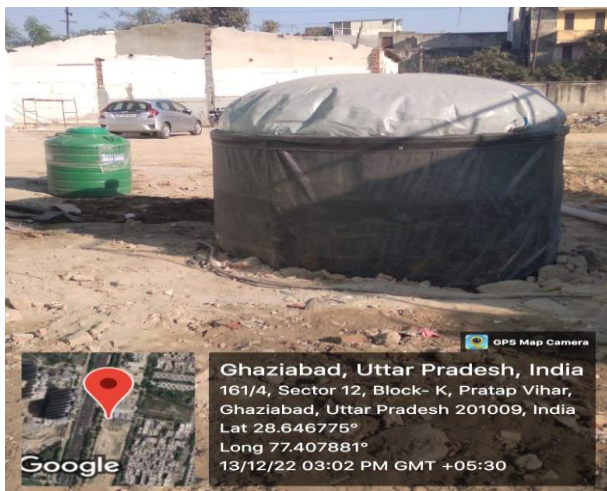
Santosh University follows several practices to reduce carbon reduction by limited entry of vehicles to campus, Battery Operated Vehicles etc. A biogas plant is installed for utilizing renewable energy which collects and process food wastes from mess and other areas and renew it as energy.



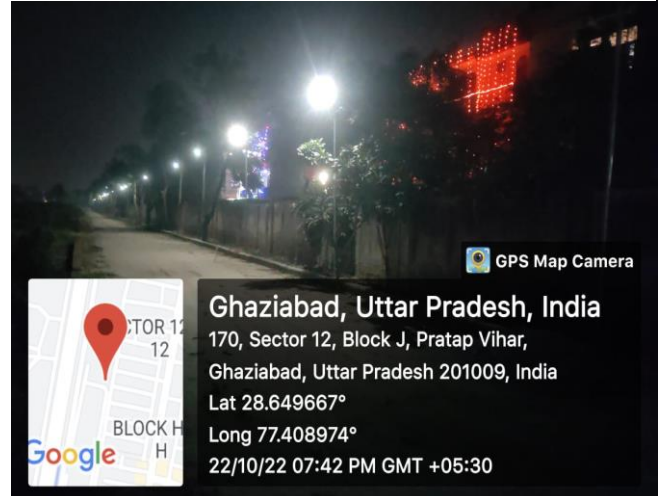
E-Vehicle



Battery Car



Biogas Plant

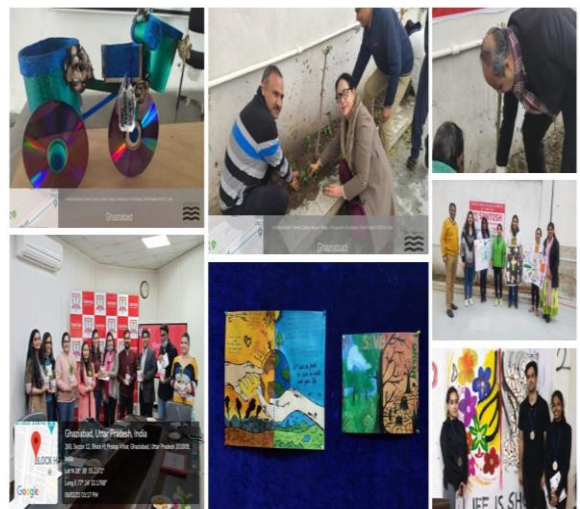
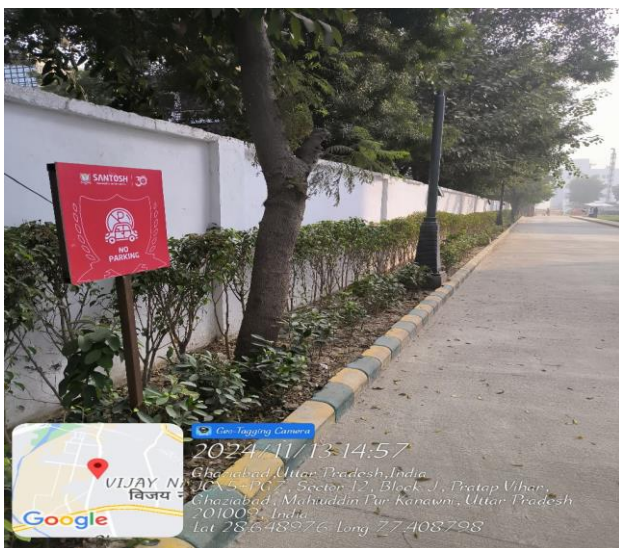


Solar Lights

7.2.4 Plan to Reduce Energy Consumption

Santosh University is continuously taking variety of measures to maintain a clean and eco-friendly campus. It regularly monitors the campus facilities with a view of ensuring optimum utilization of energy consumption. Regular Green Audits were conducted with the help of external agencies to maintain the standards of University and to become energy efficient. The University has made a policy for restricted entry of vehicles into the campus to reduce energy usage and to reduce pollution. Battery operated vehicles are present in the campus for transportation of students and faculties inside the campus. Pedestrian pathways are made to ensure reduction of vehicle usage. University is declared as a No Plastic area. Solar Panels are used as an alternative energy source. Campus has its own waste management system to treat the garbage and waste water generated inside the campus.

The University also engages in Tree plantation drives so that the students of the university will be aware of the importance of greenery and also energy saving methods. The University conducts several outreach programmes and campaigns inside and outside the campus which promotes saving environment and energy savings.



7.2.5 Energy wastage identification

Santosh University regularly conducts Green Audits and Energy Audits to identify the Key areas of energy wastage and takes necessary actions according to the recommendation of the external Audit Team.



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Personnel Certification Body

PQMS Quality Services Pvt. Ltd.
SCO-21, 4th Floor, Feroze Gandhi Mkt,
Ludhiana-141001 (Punjab)
Ph:0161-4666970, 9667664604
Email-audit.pqms@gmail.com
www.qualityindia.in

PQMS/2023/2/22

Date: 10/01/2023

To Whom It May Concern

It is to certify that PQMS Quality Services Pvt. Ltd. SCO-21, 4th Floor, Feroze Gandhi Market, Ludhiana-141001 (Punjab) has conducted Green Audit for Santosh Deemed to be University in January 2023.

Santosh Deemed to be University has been undertaking satisfactory steps towards ensuring Green Campus & Sustainable Environment. The area of improvement has been identified which has been mentioned in detailed reports.

Audit Site: Santosh Deemed to be University.

Address: No.1, Santosh Nagar, Ghaziabad, NCR Delhi-201009

Audit Tenure: - From 2nd Jan 2023 to 07 Jan-2023

Anubhav
Kaushik
Digitally signed
by Anubhav
Kaushik
Date: 2023.01.10
14:14:48 +05'30'
Prepared By

Maneet
Deewan
Digitally signed
by Maneet
Deewan
Date: 2023.01.10
14:13:58 +05'30'
Approved By



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PQMS/2023/1/12/32

Date: 27/01/2023

To Whom It May Concern

It is to certify that PQMS Quality Services Pvt. Ltd. SCO-21, 4th Floor, Feroze Gandhi Market, Ludhiana-141001 (Punjab) has conducted Energy Audit for Santosh Deemed to be University in January 2023.

Santosh Deemed to be University has been undertaking satisfactory steps towards best practice of Energy Management System. The area of improvement has been identified which has been mentioned in detailed Energy audit report.

Audit Site: Santosh Deemed to be University.

Address: No.1, Santosh Nagar, Ghaziabad, NCR Delhi-201009

Audit Tenure: - 18th Jan 2023 to 25th Jan 2023.

**Gaurav
Prakash** Digitally signed
by Gaurav
Prakash
Date: 2023.01.27
14:46:17 +05'30'

Prepared By

**Maneet
Deewan** Digitally signed
by Maneet
Deewan
Date: 2023.01.27
15:32:47 +05'30'

Approved By

CLEAN AND GREEN CAMPUS AWARD



ENERGY EFFICIENT CAMPUS AWARD





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SDG 7.4

ENERGY AND THE COMMUNITY

7.4.1 Local Community Outreach for Energy Efficiency



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PLANTATION DRIVE 2024

DEPARTMENT OF PROSTHODONTICS AND CROWN AND BRIDGE

Report on Plantation Drive

Date: 23-01-2024

Introduction: In line with the growing global awareness of environmental conservation and the need for sustainable practices, Department of prosthodontics organized a Plantation Drive. The aim of this initiative was to contribute to the green cover, promote environmental consciousness among the students and staff, and create a healthier and more sustainable campus environment.

Objectives:

To increase the green cover on the campus.

To create awareness among students and faculty about the importance of trees for a healthy environment.

To instill a sense of responsibility towards environmental conservation among the college community.

Preparation and Planning: The Plantation Drive was meticulously planned by a dedicated organizing committee comprising faculty members, students, and support staff. The committee identified suitable areas on the campus for tree plantation and collaborated with local environmental organizations to source saplings. A variety of native tree species were selected, considering the local climate and soil conditions to ensure their successful growth.

Execution: On the designated day, students, faculty, and staff gathered at the specified locations with enthusiasm and a commitment to making a positive impact on the environment. The event commenced with a brief inauguration ceremony, where the invited guest DR. Sanketh K. Reddy.

Participants were then provided with the necessary tools and instructions for planting saplings. The hands-on involvement of everyone created a sense of unity and responsibility towards the shared goal of enhancing the greenery on the campus.

Post-Plantation Activities: To ensure the long-term success of the Plantation Drive, the college initiated a tree adoption program. Students and faculty members were encouraged to adopt specific trees and take responsibility for their care.

Conclusion: The Plantation Drive was a resounding success, not only in terms of the number of trees planted but also in fostering a sense of environmental responsibility among the college community. The initiative served as a stepping stone for future sustainability projects, reinforcing the college's commitment to creating a greener and healthier campus environment.

Recommendations:

Regular monitoring and maintenance of the planted saplings.


Integration of environmental education into the curriculum.

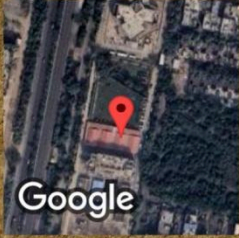
Collaboration with local environmental organizations for ongoing support and guidance.







 **GPS Map Camera**



Ghaziabad, Uttar Pradesh, India
171, Sector 12, Block- K, Pratap Vihar, Ghaziabad, Mahiuddin Pur Kanawni,
Uttar Pradesh 201009, India
Lat 28.64757°
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5TH JUNE 2023 :WORLD ENVIRONMENT DAY

WALKATHON

Student Welfare Section on the occasion of **WORLD ENVIRONMENT DAY** have conducted a **WALKATHON** on 5th June 2023 at Santosh Deemed to be University. The event was started by Hon'ble Vice Chancellor Dr. Tripta Bhagat followed by Dean Dental Dr.Akshay Bhargava, Director IQAC Dr.Dakshina Bisht & Dean Student Welfare Dr.Rajiv Ahluwalia. Faculty and Students of the University have participated in the event with full enthusiasm and showed their devotion to save environment. The walk was held for the cause "Green Environment, Clean Environment".



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STUDENT WELFARE SECTION
Celebrates

WORLD ENVIRONMENT DAY 2023

- Walkathon
- Tree Plantation Drive
- Plastic Free Campus
- Wall Painting

DATE: 5th JUNE, MONDAY 2023 | **TIME:** 10 AM ONWARDS

VENUE: Santosh Deemed to be University, Ghaziabad (Delhi NCR)





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An Initiative by IQAC

Name of Event - Energy Conservation Concept Approach and Advantage

Venue - Maharaja Hall, Santosh Medical College, Ghaziabad

Date /Month/Year - 20.04.2022

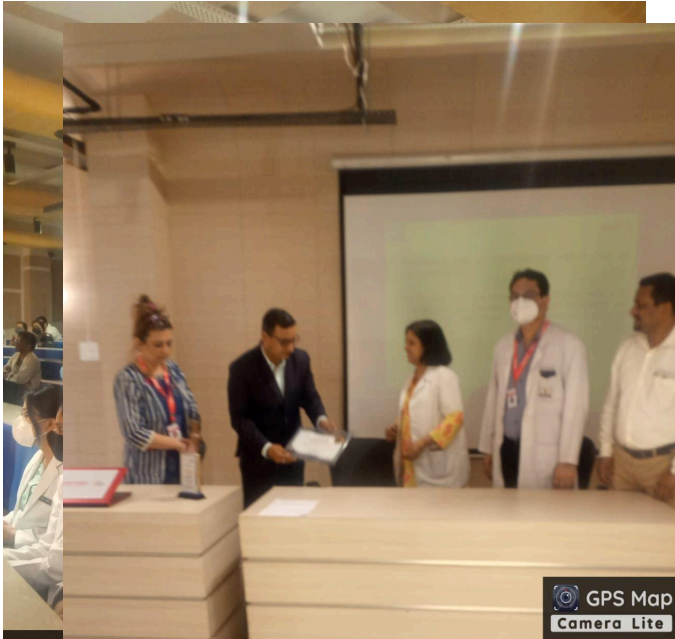
Time - 03:00 pm

Organising Unit /Collaborating agency - IQAC

Speaker - Mr. Deepak Bajpai

Number of participants- Faculty/Students - 63

IQAC, Santosh Deemed to be University organized a program for Energy Conservation- Concept Approach & Advantage with a talk by Mr. Deepak Bajpai who shared the efforts that can be made to reduce energy consumption. He shared ideas through which increased efficient energy use can be created with decreased energy consumption and or reduced consumption from conventional energy source. The Program was well attended by the faculty, staff and students and an interaction in the end to discuss the ways to consume energy on the campus and work towards making more energy efficient.



322, Sector 12, Block H, Pratap Vihar, Ghaziabad, Uttar Pradesh 201009, India

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Local 03:56:16 PM Altitude 152.9 meters
GMT 10:26:16 AM Wednesday, 20-04-2022



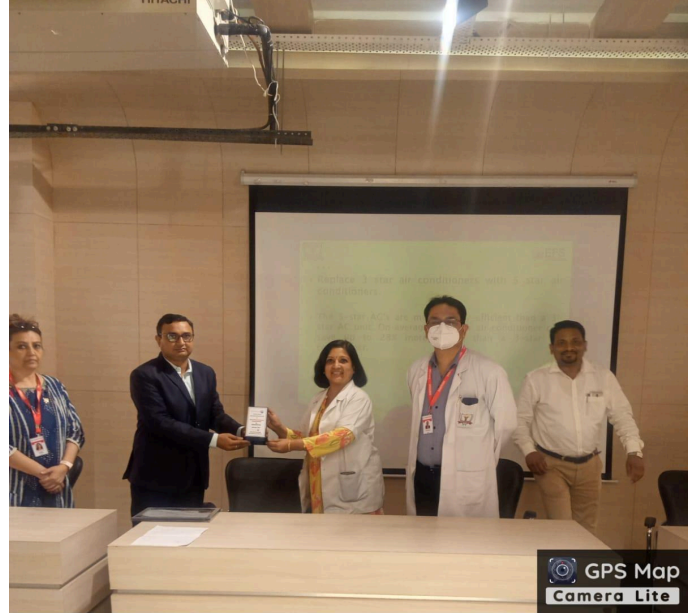
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Local 03:58:00 PM Altitude 152.9 meters
GMT 10:28:00 AM Wednesday, 20-04-2022



322, Sector 12, Block H, Pratap Vihar, Ghaziabad, Uttar Pradesh 201009, India

Latitude 28.6482991° Longitude 77.408541°
Local 03:56:08 PM Altitude 152.9 meters
GMT 10:26:08 AM Wednesday, 20-04-2022



Office of the Dean Research
Santosh Deemed to be University
Institution's Innovation council



Minutes of Celebration of National Energy Conservation Day 2022 in LT2 Santosh Deemed to be University on 14th Dec at 2:00 PM to 2:30 PM

Topic : Celebration of national energy conservation day

The National Energy Conservation Day is celebrated every year on 14th December 2022. The purpose is to showcase the achievements of the nation in energy efficiency and conservation. This occasion has been celebrated since 1991 when is led by the Ministry of power. This day is celebrated to raise awareness regarding the conservation of energy as it is the best way to have a greener and brighter future.

Objective: The day focuses on making people aware of global warming and climate change and promotes efforts towards saving energy resources. It also highlights the achievements of the country in the fields of energy efficiency and conservation.

There was an event held on 14th December 2022 at 2: 00pm by Central Research facility and Institution Innovation council in association with Santosh Startups Forum, to celebrate National Energy Conservation day. The event was arranged in LT 2, Santosh Deemed to be University.

The event started with Ms.Indu Rani introducing IIC team members to all the attendees of the event who were MBBS,BDS and BPT students of various batches. She enlightened the fact that IIC is guided by Ministry Of Education. They've created these IIC centers so as to encourage and incubate startup ideas.

Followed by Dr. Sanjeev Tomar welcoming the chief guest of the event, Dr.Sumita Giri (HOD & Professor Endodontics) and Dr.Neeraj Grover (HOD Oral Pathology). Dr. Sumita Giri interacted with the students and briefed about efforts needs to be made to ensure that energy is used efficiently by either using less energy for a particular constant purpose – like switching off lights and fans when not being used – or reducing the use of a particular service that uses energy – like driving less and using public transport instead.

She also told students that energy conservation is a conscious, individual effort, and at a macro level, it leads to energy efficiency and the different forms of energies and explained how our mental energy is affected by our day today lifestyle. As per the theme of the event Dr. Sumita enlighten the students about the importance of Engery and how differently everyone perceives the concept of energy. She further added the usage of energy to one's benefit and how we can create our own positive Aura.

Moreover it was an informative and effective event. The event was also graced with the presence of dental academic coordinator **Dr. Neeraj Grover** sir. He praised the efforts of IIC and said that end goal of energy conservation is to reach sustainable energy.

The program concluded with the vote of thanks by **Dr. Sanjeev Tomar** sir. He lauded the efforts of Santosh Startups Forum and IIC & also appreciated the opportunities provided by the university to organize several events and encouraging the students for active participation in upcoming events.





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Clean and Green Environment Camp-12.04.2021

Clean and Green Environment Camp was Organized by Santosh Deemed to be University on the 12th of April 2021, The camp was organized in order to raise awareness for pollution, conservation of natural resources, and promote sustainability.

Students participated enthusiastically and made it a big success.

