

THE ECO-FRIENDLY CAMPUS

The Institution is aware of its social responsibility and makes special efforts to inculcate environmental consciousness amongst its students. The institution believes that knowledge of environmental degradation and means to check it will lead to affirmative environmental action.

To address the environmental issues and to make its premises eco-friendly, the institution has focused on three major points:

Identification of factors that affects Environment

The institution is managing a good environmental balance and making every effort to maintain and achieve the environmental targets including the activities to recognize the environmental issues and the impacting factors. Green audit reports help in finding such factors.

Making students, stakeholders and society, conscious about the Environment, its protection, conservation and sustenance

The institution takes the responsibility to conserve and environment through various activities like cleanliness drives, green campaign, NSS activities etc.

Introduction of Environmental concepts into curricula

The Institution has introduced courses like M. Sc. in Environment Science, PG Diploma in Industrial Safety, Health and Environmental Management, Environment Science as a compulsory paper at UG level and projects relevant to environment issues at UG and PG level, to fulfil the aim of spreading environment consciousness among youth of today.

ENERGY CONSERVATION

The Institution is conscious of its responsibility and hence, committed to save the environment and working towards a sustainable future. Thus, the Institution has made remarkable efforts and effectively implemented measures needed to conserve energy. The Institution has also planned few additional initiatives, in a direction to Conserve Energy.

Efforts for Energy Conservation:

- The campus lights have been replaced by LED lights to reduce energy consumption.

- ELCB (Earth Leakage Circuit Breaker) have been installed at various locations in the campus to prevent any kind leakage and protect other electrical installations.
- Single switch boards have been installed in every class room whereby all the lights and the fans can be switched off by a single click.
- All rooms are provided with large windows to let sunlight come in and air to circulate.
- Lights and fans are switched off by floor peons and staff after completion of the last lecture of the day. Air-conditioners in Labs and offices are switched off when the college employee moves to other location in the campus.
- Sleep mode on computers and monitors are activated to save energy.
- College organizes informative talks and interactive sessions for the students and faculty members to keep them updated regarding various measures for environmental conservation and reduction of carbon foot prints.
- Celebration of events like Science day, Poster making, Quiz Competition with themes based on Energy conservation, Save Electricity etc. are organized to promote environmental consciousness. Students are engaged in activities like model display, poster making, sapling plantation etc. to convey message for the same.
- Limited access to elevators, especially to physically challenged students and staff members, reduces energy consumption.
- Guests are greeted with saplings of floral plants.
- Energy conservation slogans are displayed at various locations in the campus to remind everyone of their environmental responsibility.
- Few of the Displayed Slogans are:
 - ✓ *Live Green. Save Green*
 - ✓ *Be polite. Turn off the light*
 - ✓ *Save one unit a day, keep power cut away*
 - ✓ *Energy saved is energy produced*
 - ✓ *Save energy save life*
 - ✓ *When it is bright, switch off the light*
 - ✓ *Save Energy. Save Money. Save the Planet*
 - ✓ *Conserve to Preserve*

Initiatives Planned:

The Institution has initiated the process of inclusion of Green Audit a part of Under Graduate syllabus by introducing it as a project work under compulsory paper of Environment Studies.

USE OF RENEWABLE ENERGY

Use of renewable energy is one of the effective ways of creating a sustainable environment. The college has taken many effective steps in the direction. Some of them are as follows:

Efforts for Utilization of Renewable Energy:

- Installation of Solar Plant of 40 kw in the campus
- Installation of Solar Lights in College Premises
- Solar water heaters have been installed at Girls Hostel

Initiative Planned:

- The construction of more solar power plant on the roof to reduce carbon footprints.

WATER HARVESTING

Rain water harvesting is being used as one measure of conservation to increase the quality and volume of water in the bore well. The rain water is channelized towards bore wells to raise the ground water level. Water analysis of the well water shows the reduction of Total Dissolved Solids (TDS) as a proof for the increase in the water level.

Efforts for Water Harvesting

- Water harvesting system has been installed at two places in the college premises.
- Frugal use of water has ensured constant supply of water for the stakeholders in the college.

Initiative Planned:

- To set up the water recycling unit in the college and girls hostel.
- To utilize the waste water of RO water plant for watering of plants: The college has already installed an RO water plant on roof top, the process involves a huge amount of water unutilized as waste water containing substantial mineral concentration. The college will construct water storage tanks, which will store the unutilized water from RO plant.

This water can easily be used for watering of botanical garden and other plants without use of electricity This would serve two purposes (1) Use of waste water for plants which would also serves as fertilizer due to mineral concentration in it, (2) Saving of electricity.

CHECK DAM CONSTRUCTION

The campus has a lush green lawn and a very large playground. The rain water accumulated on these grounds in the monsoon percolates into the land and the water level is restored. As we do not have access to any hill area, due to this the construction of dam is not possible in the college premises.

EFFORTS FOR CARBON NEUTRALITY:

Carbon neutrality, or having a net zero carbon footprint, refers to achieving net zero carbon emissions by balancing a measured amount of carbon released with an equivalent amount sequestered or offset. Few of the measures that has been taken by the institution to reduce carbon emission to keep the campus, pollution-free and uncontaminated are as follows:

- Plantation trees is one of the way to achieve Carbon Neutrality the college undertakes several Tree Plantation Campaigns under Environmental Science, NSS, NCC, Revering in partnership with NGO's like 'Upvan Seva Sansthan' to reduce its Carbon Footprints.
- College students also encourage the local and adopted village residents to plant and protect trees. Tree plantation drive was carried out in the village under Green Club.
- The CO₂ emission of the institution is already within permissible limits as there are no environmental pollution sources in the premises.
- Entry of four wheelers in college premises is restricted for students
- The campus is totally tobacco free
- Use of solar energy in the girls hostel is also a part of achieving Carbon Neutrality.
- Conduction of lectures and Seminars on carbon credits and carbon foot prints.
- Projects/assignments are given on various topics related to carbon neutrality, e-waste management and bio-medical waste.
- Solar Energy Power Plant and use of Solar Energy further helps in reduction of the Carbon Footprints.

PLANTATION

The green ambience of the college is largely due to tree plantation.

Efforts for Plantation:

- Every year students undertake tree plantation activities at various sites in Jaipur under the guidance of Departmental of Environmental Science NSS, NCC as a part of social responsibility activities of the college.
- College has two botanical gardens with over 250 varieties of plants.
- Decorative and aesthetic value plants and trees are planted all over the campus and the ground is lined with trees. There are about forty five trees and around 600 plants of decorative and medicinal value.
- Green lawn covers around 2/3 of the college premises.
- Building Veranda inside the college premises are well hedged with plants.
- Hostel campus is lush green and students plant and maintain trees in the vicinity.

HAZARDOUS WASTE MANAGEMENT

The college follows the government norms in the disposal of any hazardous waste.

Efforts for Waste Management:

- Liquid wastes generated in the laboratories of Chemistry and Environmental Science are diluted with water and then discharged.
- 'Ban on Polythene Bags Campaign' conducted last year has created consciousness among student and staff and has brought down the usage of disposable plastic goods to the minimum.
- Separate dust-bins are provided for collecting biodegradable and non- biodegradable wastes.
- Polythene bags and other non-decomposable materials are separated and sold to vendors before disposing the organic waste.

E-WASTE MANAGEMENT

E-Waste is hazardous to the environment and health of people and it needs to be recycled and disposed in appropriate ways. The Institution has taken appropriate measures for e-waste management.

Efforts for E-Waste Management:

- Tie-up with ETCO, Jaipur, an e-waste recycler company.
- Most of the e-waste of the college like non-working computers, monitors and printers are discarded and scrapped on a systematic basis and handed over to e-waste recycler company, ETCO.
- E-waste collection drop box for collecting small sized electronic waste has been kept in the Computer Science Department and in front of the Staff Room. Students and staff deposit are regularly reminded to deposit e-waste into them.
- The Department of Environment Science organizes Cleanliness Awareness Drive every year to make students aware of the hazards of E-Waste.

ANY OTHER

1. GREEN -CLUB

The College has an active Green Club which undertakes following activities:

CREATION OF ECO FRIENDLY ATMOSPHERE-The creation of an eco-friendly atmosphere is a remarkable mission of the Green Club of the institution. Giving training in Nature-Conservation and Eco-development, raising awareness about de-forestation and global warming, planting saplings, visiting the natural eco systems and conducting competitions to reinforce the significance of Environmental protection are some of the activities of the Green Club.

Objectives of Green - Club:

- Awareness regarding sensitivity to the environment and associated problems.
- Knowledge- acquiring basic understanding of problems.
- Attitude values ethics and feelings of concern.
- Participation and active involvement of students.

Activities to accomplish objectives: Plantation activities, Workshop for Reuse Reduce and Recycle (Increase use of jute bags paper bags, anti polythene campaigns etc.), Poster making competitions, Slogan writing, Green file activities, Debates, Paper Presentations.

Activities to create awareness: Celebration of important days related to environment, Ozone Day, Biodiversity Day, Wildlife Week, World Environment Day, Green Consumer Day.

2. SOLID WASTE MANAGEMENT:

College management has devised a unique system of segregation of the solid waste other than the food and organic waste. This is a very good measure as it helps in segregating the wastes at the source itself. It includes the setting up of color coded bins which differentiate between different types of wastes viz., recyclable, non-recyclable and compostable wastes.

The different types of wastes are denoted by various colours like:

- Green coloured bins are used for storing recyclable wastes such as paper bags etc.
- Red coloured bins are used for storing compostable wastes such as food waste and organic waste which can then be put into the composting process.
- Brown coloured bins are used for storing non-recyclable wastes such as glass bottles, tube lights etc.

Also, at different spots in the campus various bins are placed with a chart showing different kinds of wastes. This helps the students and the staff to distinguish between different kinds of wastes if they are not aware about it. A message is also sent out by this practice to the students and the staff that they too can practice the same method in their own households by segregating wastes before its disposal.

In addition of all these, the Institution has also taken initiatives like:

- ‘Say No to Plastics’ Campaigns: Efforts are underway to reduce the use of plastic bags by staff and students on campus. Volunteers of Green Club are working towards a plastic free campus. The campaign is a part of this effort.
- Screening of Environmental Films and Documentaries: Environmental documentary films, are screened and discussed with the students on regular intervals.
- Environmental Exercises and Games: Environmental games and exercises taken from Centre for Environment Education Manuals are conducted with great success. These include situational analysis, simulation exercises and case studies.
- College is also a part of ‘Swachh Bharat Abhiyan’ and the Class Representatives are given responsibility of maintain a Trash Free Campus
- College has started developing a Vermiculture compost pit in the hostel vicinity where all organic waste will be used to manufacture organic manure.
- Eco club has planned a drive for Clean Campus which includes gathering of fallen leaves and other organic waste like vegetable peels etc from college and hostel canteen which will be used for Vermiculture and compost formation

- College is associated with AIIMS Jodhpur as a part of its campaign for Lead Free World. An MoU is soon to be signed with the prestigious institution.
- College is associated with Rio India Programs-Centre for United Nations. Rio+23 WHS India Certification Program; it is a short-term co-curricular course study for Indian students. It is in synergy with the principles of United Nations General Assembly Resolution 46/182. The program focuses on four key themes of WHS 2016:
 - Humanitarian effectiveness
 - Reducing risk and managing vulnerability
 - Transformation through innovation and
 - Serving the needs of people in conflict

INITIATIVES PLANNED:

- Department of Environment Science and Chemistry are planning to make social drive for lead awareness campaign a part of their CIA project with credit marks.
- Humanities Club has planned visits to schools and slum areas to spread environmental awareness. It is also planning street plays dealing with environmental issues to be performed at different public platforms this year. The plays will address several environmental issues and will be performed at various inter college programs as well as Slum areas of the city for maximum impact.
- Green Club and Humanities Club have planned to promote organic farming in the adopted village, introduction of vermiculture and production of natural manure etc are planned in association with botany department.