



BEST PRACTICE
ENVIRONMENTAL SUSTAINABILITY
(HRITIMA)

2. BEST PRACTICE – II 1. Title: HARITIMA (हरीतिमा) - ENVIRONMENTAL SUSTAINABILITY AND GREEN INITIATIVES IN COLLEGE PREMISES

2. Objectives of the practice:

To promote greenery and sustainability in the campus, to speed up eco-friendly practices and education.

To organize programs on practices regarding 3R - Reduce, Reuse and Recycle.

To take the necessary steps to foster a culture of environmentally conscious thinking among the students. To use constructive and development-oriented actions to counteract environmental disruption and preserve ecological equilibrium.

To conserve Water resources in the campus.

To spread awareness against harmful fertilizers, especially synthetic fertilizers which are led to water, soil and air pollution.

To plan environmental awareness initiatives both within and outside the campus by creating more and more student clubs.

To promote millets which are climate resilient, tolerant of poor soils, drought and harsh growing conditions.

3. The Context :

Environmental sustainability is a concept in conservation that refers to meeting the needs of the present and future generations in terms of resources and services without

compromising the wellbeing of the ecosystems that produce those resources and services.

This institution sincerely believes that the attitudes, worldviews, and choices made by today's youth will determine the course of the globe in the future. If the younger generation is to buck the trend and encourage more sustainable practices, they must be aware of the effects of resource extraction, extreme pollution, and ecosystem devastation.

Students will be able to share their knowledge and abilities with various societal groups through social awareness programmes, extension activities, sensitization campaigns, and other college-based initiatives.

It is saying 'The more the trees the cleaner the air will be'. This is due to oxygen level provided by trees that help to maintain carbon neutrality in campus. It is need of time to focus on plantation drives not only in campus but outside campus also.

The concept of the practice is that the institution should concentrate on environmental awareness initiatives like properly maintained greenhouses, solar panels, a ban on plastic bags, increased tree planting, and efficient environmental and water management techniques like rainwater harvesting, grey water recharge, and bio toilets to cut down on water usage to enable more environmental sustainability.

4. The Practice :

Academic Initiatives:

1. In addition to Environmental Studies, this institution has also developed cutting-edge environmental courses in Geography, Sociology, Economics, Horticulture, Ecology, Biotechnology, Botany, Zoology and Home Science. Environmental study is facilitated under numerous headings such as 'Environmental Studies', 'Environmental Chemistry', 'Environmental Pollution' or 'Environment and Resource' in Foundation Course. Students also learn to manage the disaster conditions in 'Environmental Issues and Disaster Management'. The relation of environment with humans and others is also a part of curricula under the headings 'Ecology' (Botany), 'Plant Ecology, Biodiversity and Phytogeography' (Botany), 'Ecology and Applied

Zoology'(Zoology), 'Men and Environment Relation' (Geography). How to protect Environment, this is also taught in Sociology under the heading 'Social Legislation Environment Protection Act – 1986' and 'Environment and Society'. Students study 'Men and Environment Relations', 'Climatology', 'Geography of Environment', 'Environment and resource' or 'Bhartiya Sanskriti aur Paryavaran'. Numerous students are doing project work on Environmental Protection & Sustainability.

2.National-International conferences on environmental issues are organized by academic departments. Department of Zoology and Biotechnology have organized such conferences.

3.In this institution, departments assign students

environmental projects to get them thinking about environmental challenges and spark interest in green projects.

Clean Campus-Green Campus Initiatives :

Plantation Drive : The Plantation Drive is frequently practiced on campus under Haritima Programme, Hariyali Utsav and Ankur Programme during the rainy and winter season. These programmes are conducted by NSS, NCC, Eco Club, Deptt. Of Botany and other departments. The students and staff take part in these programmes and most of them voluntarily take responsibility as caretaker of the plant.

Infrastructural Initiatives :

1.Landscaping

2.Smart cafeteria

3.Smart Washroom

4.Rain water harvesting

5.Vermicomposting

6.Use of LED lights and sensor lights

7.Solar panel

8.Grey water recharge system

9.Use of solar LED and fertilizers from vermicompost

10.Organic farming

11.Medicinal garden

Other Eco friendly Initiatives :

.Promotion of Tech-KRGC Programme – This institution has launched Tech-KRGC programme for go digital to reduce paper waste and save plants.

2.The institution strictly restricts the entry of automobiles inside the campus for reducing carbon.

3.The campus is declared polythene free zone.

4.Campus has been declared tobacco / smoking free zone. Use of these products is punishable act.

5.Energy Audit for energy conservation.

6.Water Audit for conservation of water resources.

7.To fulfill its objective of environmental sustainability, the institution has signed MoUs with various environment-oriented

organizations to collectively work for the betterment of eco system.

8.Organic farming for hostel mess.

Awareness Programme:

NSS, NCC and Eco Club of the institution organize many awareness programmes given below 1.The institution observes Earth Day, Environment Day, Biodiversity Day, Save River Day etc. 2.Student and staff are encouraged for using bicycle or battery powered vehicles as a mode of transport.

3.NSS sensitized its God Gram/Basti (adopted village) Mahalgaon on Environmental issues under Swachha Bharat Mission.

4.The students from all disciplines, members of Eco club, volunteers of NSS and Cadets of NCC run several programmes throughout the year on subjects like pollution, conservation, biodiversity, sustainable energy, and health.

5.Institutional Social Responsibility Cell spread awareness and demonstrate various eco - friendly practices such as Waste segregation, Health hazards of plastic usage, Energy and water conservation.

6.NSS and NCC regularly conducted awareness programmes on steps towards Zero Plastic and No Smoke/Tobacco Zone.

7.Eco club conducted awareness programme on the reduction of wastes.

5. Evidence of Success :

Green campus and its effects :

Tree plantation make campus look green and clean with fabulous ambience. The college has developed 8 lush green gardens. The trees and plants like Asoka (*polyolthia*), Amaltas (*Salpinia*), Neem (*Azadiriecitia*), Sheesham (*Dalbergia*), Babool (*Delonix*), Kachnar (*Boerharvial*), Palm tree, Peepal, Bargad, Goolar (*Ficus*), Shahtoot, Bell (*Argle*), Callistemon, Cycus, Mango (*Magnifera*), Kathal, Papaya, Banana, Kaner (*Nerium*), Anwilo etc. enhance the beauty of the campus.

The institution has benefited from the planting of trees in a number of ways, including increased air quality, reduced pollution, and a greener, more visually beautiful campus due to trees' ability to absorb CO₂.

It has also been able to stop the campus from getting too heated, which was a problem in the past, by planting trees all around it. This makes the campus atmosphere cooler.

Bio-diversity Surveys :

On-campus biodiversity surveys are often conducted by the Zoology and Botany Departments. Surveys for birds, butterfly, plants & trees, insects etc. are successfully conducted and list of identified species uploaded on website and displayed in the campus.

Eco-friendly measures :

The institution has implemented a number of eco-friendly practices, such as energy-efficient lighting, solar panels, LPG, vermicompost, recharge wells, recycling of used paper,

rainwater collection, green houses, organic farming and air quality monitoring equipment. Bird watching sessions, Dana-pani campaign and Bird houses donation camp are also conducted for Save Bird Mission especially for save Sparrow (Goraiya).

6. Problems Encountered and Resources Required During the implementation of procedures connected to environmental sustainability and the green initiative on a college campus, some problems are encountered :

- Financial support for the Environment Research aimed at developing solutions for sustainable practices will be advanced by projects that concentrate on local contexts.

- Storage limits of water from rain water harvesting and grey water system.
- Students will be better able to contribute to their own environmental culture and traditional/indigenous environmental management by participating in the planning and creation of specialized environmental programmes for the student community.