

Shri Shivaji Education Society, Vidyanagar, Karad's  
Board for Higher Education, Vidyanagar, Karad's  
**Yashwantrao Chavan Institute of Science, Karad**  
**Dist. Satara (MH), India-415 124**



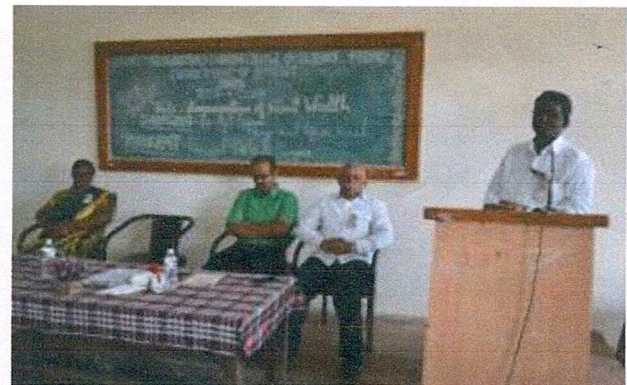
## Criterion VII

### Institutional Values and Best Practices

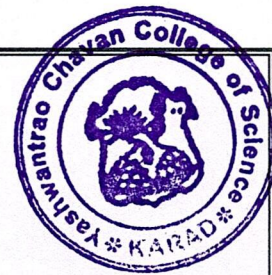
#### Key Indicator – 7.1

#### Institutional Values and Social Responsibilities

### Action Taken Report on Clean and Green Campus Initiatives







## Clean and Green Campus Initiatives

### Action Taken Report on Clean and Green Campus Initiatives

- Plantation drives are taken by the institution on several occasions like birth anniversaries of great leaders and environment related days.
- Planted trees are properly looked after by staff as well as students of different environmental clubs viz. Eco-club, Eagle Nature club, NSS and NCC.
- Institute conducts different programs and activities to spread awareness amongst students. This includes guest lectures, poster presentations, and Tree Raksha Bandhan, and sign boards.
- Plants of the campus are tagged with a QR code to track the record and retrieve the information.
- Institute follows No Vehicle day on every Sunday. No vehicle is allowed to enter the campus to follow the initiative.
- Electric vehicles are future of world to tackle non renewable sources of energy. Institute always promote eco-friendly ways to make awareness amongst students and staff. Sign boards play an important role in awareness.
- Institute encourages students to use renewable and convenient sources of transportation. Campus area has a separate bicycle parking.
- Institute policy is strict and must be followed, one among it is prohibition of tobacco and tobacco related products. Tobacco is totally banned in the campus premises and adjoining area of the campus. Sign board is placed on the main entry of the Institute building.
- Some areas of Institute are fulfilled with proper and maintained pedestrian friendly pathways across the campus.





- Institute follows the campaign to maintain cleanliness as well as to reduce the pollution at its level. Alternative sources to plastic are always welcomed. We also maintain the same principle in nearby area of the campus. NSS arrange awareness rally to promote plastic free India.
- The dustbins are positioned in various locations across the institution's premises for the collection of solid waste.
- The vermicompost is developed using collected biodegradable waste dumped in a big pit. The developed vermicompost is applied to the Institute's botanical garden and other plants.
- To treat kitchen waste, proteolytic, amylolytic, and lipolytic bacteria used to treat kitchen waste in hostels and canteens, to reduce drainage system blockages and odor issues.
- To reduce paper-based waste, the institute's principal, departments, and office use Google Classroom, email, and a WhatsApp group to electronically notify the stakeholders.
- The chemistry and microbiology departments produce hazardous liquid waste. The chemistry department's waste is gathered in a pit and then used on the garden. The microbiology department follows the accepted protocol for cleaning, sterilizing, and neutralizing.
- The waste water of the institute is collected in a bund constructed in the botanical garden, and the same is used for watering the plants and sugarcane farm. All the waste water is utilized on the institute campus itself.
- The hazardous gases generated in the chemistry department and toilets are removed using exhaust fans.
- The institute's computer and its peripherals are repaired by the local computer dealer, Universal Systems, Karad when necessary.
- Sources of e-waste in the institute are the electrical section, computer, electronics, and physics departments.

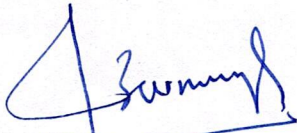


- The institute collects e-waste from various departments and hands it over to the Scrap dealer for recycling.
- Waste materials, including plastic, metal, newspaper, and stationery, must be gathered in a systematic way, and delivered to the vendors (Nilesh Traders, Kolhapur) for recycling.
- The garbage collection truck of Saidapur Gram panchayat gathers, separates, and disposes of the remaining solid and biomedical waste from the women's dormitory.
- The institute biotechnology department organized an activity *Best out of waste*.
- The entire campus to the east is walled in to prevent rainwater from flowing from west to east due to the natural slope, even if no 'Check dams' in the traditional sense have been built on the campus. By allowing the blocked water to seep underground, the groundwater table is refilled. Additionally, the open areas in front of the laboratories have been walled in, and the rainwater gathered there is channelized to an open well adjacent at the botanical garden (on the eastern side of the building), from where it is used to irrigate the campus's grounds through drainage pipes.
- The open-well water is used for the institute premises with the help of a tank constructed near the botanical garden. On the institute campus, at various places, the bore well is used for water recharge.
- The premises of the institute, cement water storage tanks are constructed: one near the botanical garden and the other at the top of the main building.
- The waste water of the institute is collected in a bund constructed in the botanical garden, and the same is used for watering the plants and sugarcane farm. All the waste water is utilized on the institute campus itself.
- Preventive maintenance and precaution is taken to prevent water distribution system malfunctions like leakage.
- Water level controllers are installed in water tanks to prevent wastage of water and overflowing.





- Institute encourage choosing LED lighting over traditional sources.
- Energy-saving boards are placed near the switchboard to spread awareness to conserve the electric energy.
- Institute has no air conditioners on the campus. This helps in both saving electric energy as well as reduce levels of pollution which is caused by ACs like CFC evolution and other pollutant.
- Institute use solar energy to light the streets on campus.
- Sensor-based systems like Motion Sensor Based LED Bulbs, Floating sensor-based water level controller System and Thermal sensor based automatic Equipment are installed to minimize power usage.
- In order to unitize the renewable energy resources, the institute has installed Biogas plant near the hostel.
- Institute conductions routine green and energy audit.



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