



Report on

1. Alternate sources of energy and energy conservation measures

1. To install Solar panels to use alternate sources of energy to conserve the energy for future generation and reduce electricity bills. In the past few years, the threat of climate change has made SJMIT to switch over to roof top solar panels which is the best ways to save electricity cost and helps in saving the environment by targeting the go green campaign
2. The Institution has replaced Tube Lights with LED bulbs.
3. Replaced CRT monitor screen with LED Monitor screen in most of the computer labs.
4. The classrooms are well ventilated and due to cross ventilation, they are very airy and well lighted.
5. The students in the computer labs are advised to shut down the system and switch off the monitors without fail before leaving the lab.
6. The instructions as notices are placed in all the computer labs and other labs. This helps the students to switch off the fans, lights and other electrical and electronic appliances.
7. The lab instructors and attenders are instructed to unplug some of the electrical appliances when not in use, especially the ovens, other equipment in Civil Engineering, Mechanical and Electrical Engineering lab.
8. Street lighting is usually powered by dedicated power circuits so they can be controlled by a common light sensor or clock timer.
9. The air condition was installed in the seminar hall or computer laboratory which are save energy or energy efficient.

Recommendations made to conserve energy:

- In a move to conserve energy, requested to replace lights with LED bulbs/ LED tube lights in all Labs, Library and office where energy consumption is more.
- To replace all the old computers with power efficient computers in all the computer labs.

2. Management of the various types of degradable and non-degradable waste

In the college the following initiatives are taken towards the waste management of solid waste, E-waste, Biomedical waste and Hazardous Chemicals waste.

Solid Waste Management

To achieve a healthy and good environment on our campus, The collected waste is segregated as paper and plastic waste. After collecting waste is sell to scarp vendor. The wet solid waste is collected from the hostel is sell and used for cattle feeding. The garden waste collected used for preparation of Vermi composite and used for garden in our campus. The concrete waste is used for concrete by recycling aggregate for projects and civil construction works in the campus.

**Liquid Waste**

The waste from the toilets/ rest rooms are discharge into the underground drainage system.

E-Waste Management

Electronic components are put to optimum use; the minor repairs are done by the laboratory assistants, after repairs the electronic components is reused. The equipment which cannot be refurbished is disassembled and segregated, after collecting the threshold quantity is intimated to Sidvin Computers, Chitradurga to collect the E waste from the campus. This is as per the MoU signed between the college and Sidvin Computers, Chitradurga dated 21st April 2015. The usable components are used by students for their projects works in Electrical Electronics Engineering Department.

Biomedical Waste Management

No Bio medical waste generated in the campus.

Hazardous Chemicals waste

The Chemicals used in Chemistry and Environmental Laboratory is in dilute form and dispose to sewage pipes. The waste batteries and UPS are sold to the same vendors were purchasing new one.

3. Water Conservation

Water is pumped from the bore wells to an Overhead tank of capacity 3 lakh liter. Then water is conveyed by Gravity flow, from OHT to whole campus through proper pipe line network. The college has two overhead tanks and water filter with reverse osmosis. The pure water is provided to students through clean water taps and the waste water is disposed to underground sewage system.

Below are the measures taken for cleaning the water storages in the college premises:

- Regular checks of the quality of water are undertaken by Civil Engineering Department.
- The overhead tanks are periodically cleaned.

Borewell recharge

Institution has Borewell recharge system for groundwater recharge. Rain water collected is filtered before it is supplied to bore well since the water is getting recharged. It is ensured that catchment is not contaminated with any impurities and chemicals. Runoff of the rain water is taken to recharge pit for bore well to improve the ground water table.

Rain water tank

The college has Rain Water tank with approximately 1Lakh litres. The water harvesting pits are active and operational. The rainwater harvested during rains not only helps to save water from conventional sources, but also to save energy and reduce expenses incurred on transportation and distribution of water.



4. Green Campus Initiatives

The college has shown remarkable awareness in maintaining an eco-friendly campus. On visiting the Campus, one can experience the appearance of well-constructed buildings and impressive lawns, spacious sports grounds and green environment beneficial for teaching and learning process.

Restricted Entry of Automobiles

Our college is located on the National highway and it is well connected with the public transport and most of the students to use the public transport and college bus for their safety, security and fuel conservation which in turn reduces environmental pollution. The college strictly prohibits the entry of outsider vehicles inside the campus.

The campus of SJMIT ensures tiles paved pedestrian friendly paths have been constructed for smooth movement of students, faculty and other staff members of the institute. The pedestrian paths are being well maintained on regular basis for keeping them free of mud and dust. On either side of the paths, proper concrete boundaries are made and painted. Pedestrian pathways ensure safety of all stakeholders. The college is Restricting entry of automobiles by installing the barricades within the campus.

The Institute has pedestrian paths within the campus. The goal of these Pedestrian friendly roads is encouraging walking as an attractive means of transportation as well as for leisure, recreation and health.

Ban on use of plastic

Single-use plastic items are avoided inside the campus to much extent and awareness programs are created among staff and students through orientation and display boards in the premises. The institution also conducted activities on the Ban on use of plastics and created awareness to the faculties the localities in and around the campus. Measures have been taken to create awareness to students and staff not to use plastic materials inside the college campus by issuing circulars. Plastic free campus is a program of the institution which aims to measurably reduce plastic pollution in college campus with a special focus on the reduction and the elimination of plastic bottles, plastic straws and poly bags.

Landscaping with trees and plants

Greenery in our environment, benefits more than just our health and wellbeing. It also facilitates water management and promotes biodiversity in build-up areas and can help reduce the effects of pollution. To create green cover, eco-friendly atmosphere, pure oxygen at campus, plantation program is organized every year involving all students, faculty and head of institution. There are so many plant species present at college campus. The maintenance of these plants is performed periodically. The college has appointed one trained gardener and attenders for the maintenance.



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Plantation activity has been practiced all around the campus to make the campus atmosphere ecofriendly. NSS and Civil Engineering Department organised plantation on every and in AICTE activity point and VTU Social connect and responsibility program student will plant the tree sampling.



Photo 1: Tree plantation by students



Photo 2: Tree plantation by faculty



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Photo 3: World Environmental Day



Photo 4: Tree plantation by students & faculty



Photo 5: Swacha Bhart Abhiyana



Photo 6: Published in news paper



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Photo 7: Cleaning the SJM Campus

5.0 Disabled-friendly, barrier free environment

The college prohibits discrimination against individuals with physical and mental disabilities and provides special facilities for the differently abled students to provide them opportunities to acquire quality education and to bring them into the main stream of the society. The college has social responsibility and perception that differently abled students should also be respected and treated as a normal human being and keeps in mind the basic needs of differently abled person to provide them with a friendly atmosphere.

Physical Infrastructure

The college has special facilities like ramp, rails and tactical paths to aid the disabled students. The main entrance and exits are clearly identifiable and easily accessible. The college has a wheelchair in case of need. The institution has gone an extra mile to shift the classroom in the ground floor to help the differently abled students a feel of comfort when they felt uneasy going to upper floors. Extra care is taken to ensure that they are comfortable in the classrooms.

Restrooms

The college has a restroom which is clearly distinguished and reachable. The door is wide enough and lockable from inside and releasable from outside.



Screen Reading (NVDA) Software

The institution installed screen reading software which is free in open source. Software used is NVDA (Non-Visual Desktop Access) portable screen reader software. The Software is installed in the computer at library for the blind students who can able to access computers.

Major Highlights in the software includes:

- Support for popular applications including web browsers such as Mozilla Firefox and Google Chrome, email clients, internet chart software.
- Automatic announcement of text under the mouse and audible indication of the mouse position.
- Easy to use talking installer.

Mechanized equipment: Wheel Chair provision is provided.

Institution provides wheel chairs facility inside the campus, which is one of the most commonly used assistive devices for enhancing personal mobility, which is a precondition for enjoying human rights and living in dignity and assists people with disabilities to become more productive members of their communities. The SJMIT campus ensures, there is an availability of sufficient wheelchairs for the disabled people and one community worker from the college is always available for the movement of disabled person from one place to another as per their requirement.

Human Assistant provision for enquiry and information

The institute provides human assistance for the visitors and also the person with disability to reach administrative block, class room, library, laboratory with help of security guards or sweepers. The institute provides the scribes for the students who can not write examination due to disabilities or due to accidental injuries by taking permission from the university well in advance.


PRINCIPAL
SJMIT, Chitradurga