



# POTTI SRIRAMULU CHALAVADI MALLIKARJUNA RAO COLLEGE OF ENGINEERING & TECHNOLOGY

ONE TOWN, VIJAYAWADA - 520001

APPROVED BY AICTE, NEW DELHI, AFFILIATED TO JNTU KAKINADA

ACCREDITED BY NBA (ECE, CSE & EEE) ISO 9001:2015 CERTIFIED

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## POLICY DOCUMENT ON ENVIRONMENT AND ENERGY USAGE

### Policy Objectives:

1. To sensitize students towards a Clean, Green, and Sustainable Environment.
2. To optimize the use of water and energy.
3. To use LED/CFL bulbs and other energy-saving devices on the campus.
4. Proper handling of solid waste from the campus.
5. Encourage the use of public transport and car-pooling for minimizing fuel consumption.
6. Smoke-free and tobacco-free campus.
7. To restrict single-use plastics.
8. To adopt methods for water recycling and rainwater harvesting

### Policy:

The protection of environment is a global issue and it is not an isolated problem of any area or nation. This has to be addressed collectively by everyone in society as the world is such small unit and everything is interconnected irreversible. Everything affects everyone and a nuclear test carried out in one part of the world will be carried by winds to any other part of the world. Human survival depends not only on human well-being but also on the well-being and protection of the environment. Man's scientific and technological progress has deposited him with far greater power over nature, which has resulted in the unthinking use of power and the infinite penetration of nature and environment. There is a great youth revolution is taking place in Europe under the leadership of the young Greta Thunberg, while the world nations have pledged themselves to the sustainable development goals, with very pertinent areas like sustainable cities and communities, responsible consumption and production, Climate Action, life below water, life on land and partnership for the goals, expected to be attained by 2030. Government of India has formulated National Mission for Sustainable Agriculture (NMSA) 2019 for promoting sustainable agriculture through a series of healthy practices such as; 'improved



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crop seeds, 'Water Use Efficiency', 'Pest Management', 'improved Farm Practices', shifting to environmental friendly technologies, adoption of energy efficient equipment, conservation of natural resources and integrated farming. Therefore, as a responsible higher education institution, it is our responsibility to have a policy for the protection and upliftment of sustainable development considering all the stakeholders associated with the institution.

The Environment and Energy Policy of PSCMRCET applies to the entire campus and the as well as to all academic, curricular, and extracurricular activities and programs of the College. It will help us to embed efficiency and environmental awareness into our every-day activities, such as minimizing the impact on the environment and cutting pollution and waste by using energy efficiency measures; for example, switching off lights, minimizing waste, pooling of vehicles, plastic free campus, using carry bags, promotion of bicycles, organic farming and production of consumable products etc. The reorganization of existing institutional arrangements is a necessity of the time, and requires a strong government policy perspective in terms of environmental aspects.

To provide a clean and green environment in and around the campus, it has been decided to take sustainable initiatives for environmental protection and efficient energy usage. Despite the relatively small campus, majority of the open areas are covered with natural greenery. The college has to adopt means for energy saving, proper management of waste, and underground water recharging with rainwater.

## **Environment and Energy Usage Principles College Environment Policy**

PSCMRCET has a strong environment policy and it always put effort in conveying the same to the students, local people and other stakeholders. The policy goes thus: Sacred Heart College is committed to protection and promotion of life on the planet. It believes in 'go-green and grow green'. As a matter of practice, it shall;

1. Seek to spread and deepen awareness on environment issues and an environment friendly life-style among the academic community and neighborhood community.



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2. Pay special attention to minimizing waste, especially plastic waste that doesn't degrade, with 'zero waste'. This is an ideal management properly implementing with advance planning. Therefore, we take utmost care while conducting of the activities/programmes/celebrations to avoid or minimize the use of disposables and flex banners.
3. Introduced and practiced recycling the material that doesn't degrade, at the student level through Entrepreneurship Development Cell, and at the college level, by establishing a paper recycling unit in due course.
4. Tap renewable energy resources including solar energy, rain water harvesting etc. as much as possible.
5. Protect and promote diversity, especially of indigenous and coastal flora and fauna and their documentation.
6. Promote organic vegetable and food production by students and local community with the involvement of students and faculty.

## **Policy Implementation:**

To achieve the objectives, the college has already implemented its environmental policy in the following areas:

**Energy Saving:** The staff members and students lead initiatives to save significant electricity and have developed a policy for reducing electricity consumption by using LED and replacing the old tube lights with LEDs. The students commuting from far-off places use the public transport system as the bus pass facility at subsidized rates is extended to them by the college which is provided by state Govt. Many of the staff members use car-pooling and/or two-wheelers. All the computer monitors have been replaced with LED/LCDs displays. Replacement of old appliances like lights, fans with energy-efficient appliances is underway. The process of the paperless office and use of e-documents for routine work has been started.



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**Smoke-Free and Tobacco-Free Campus:** Authorities have taken suitable steps for a Smoke-free and Tobacco-free campus. The relevant placards are displayed to highlight the need for a clean, green, and sustainable environment.

**No to Plastics:** Minimum or no use of plastics is practiced by students, staff, faculty, and visitors on the campus. The waste collection bins are kept in appropriate places and managed accordingly.

**Solid and Liquid Waste Management:** PSCMRCET has taken several initiatives under Solid Waste Management and Water Conservation. A separate area has been set up on the campus for the segregation of solid waste like plastic bottles, wrappers, cardboard, broken glasses, e-waste etc. These wastes are kept in colored bins as per standard guidelines. A government authorized Rag picker usually collects this waste once in a week. The College has constructed compost pits for making compost from the garden waste such as leaves and grass clippings. Initially, six pits have been constructed; two honeycomb type (above ground surface) and four below the ground surface.

**Biomedical waste Management:** This category of waste includes waste sharps (lancets etc.) and soiled waste (cotton contaminated with blood). To reduce the misuse of used waste sharps it is properly chemically sterilized and broken before disposal. Used soiled wastes are discarded after proper autoclaving.

**E-Waste Management:** To reduce e-waste, old computer systems are sold to those dealers who upgrade them and sell them again in the market.

**Waste Recycling System:** College has hired a government authorized Rag or waste picker who usually collects recyclable and non-recyclable waste once in a week.



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**Hazardous Chemical and Radioactive Waste management:** Waste of biological origin is converted into manure through composting and it being used in place of chemical fertilizers in the Botanical garden. Spent media and used cultures are discarded after proper autoclaving. It keeps the environment clean and healthy. In the backyard of the Chemistry laboratory, there is a small plant conservatory where plants have been grown specially to absorb air pollutants and various obnoxious gases emitted during experimentation.

**Water Recharging:** The College has constructed rain-water recharging system. Whole of the campus rain water is fed to the underground water table that leads to optimum use of rain water. This leads to maintenance of water table in and around the campus.

In upcoming years, the college will adopt measures for recycling of water and other waste-products recycling.

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## GREEN CAMPUS POLICY DOCUMENT

### PSCMRCET Green Campus Policy:

Green Campus is a place where environmental friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind.

### Objectives:

1. To restricted entry of automobiles the institute does not allow the vehicles enter in to the campus premises.
2. To maintain the eco-friendly campus, the institute encourages the faculty members and students to use the public transport for safety and security.
3. To maintain pedestrian Friendly pathways.
4. To make the campus plastic free.
5. To integrate environmental concerns into policies, plans and programmes for Green Campus Environment.

### Scope of the Green Campus Practices:

The PSCMR CET Green Campus Environment Initiatives will develop exciting new co-curricular and extra-curricular practices that encourage students to take the lead in creating positive change. These initiatives call for a thorough review of all infrastructural, administrative functions from the standpoints of sustainability and the environment. The relationship between college and nature is a long and enduring one, something that students and staff of the college are aware of the Green Environment Initiatives.

1. Restricted entry of automobiles
2. Use of bicycles/ battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

The Green Practices followed by both the faculty members and the students on the campus are given here under:

#### 7.1.5.1 Restricted entry of automobiles:

PSCMRCET does not allow all the vehicles enter in to the campus premises and can enter the vehicles of college staff and students only. We protecting the environment with maintaining green campus.

- a. Any vehicle can entry in the campus after permission from security at the entrance gate.
- b. In our college campus restricted automobile can enter and most of them park in the parking zones only.
- c. Only the network of our college can enter with their vehicles.



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## 7.1.5.2 Use of bicycles/ battery powered vehicles:

PSCMRCET encourages the faculty members and students to use the public transport for safety, security and fuel conservation on every first Saturday in every month to minimize the carbon dioxide emissions. The institute is located in the heart of one town locality of Vijayawada city. College allows all the bicycles and battery powered vehicles of college staff and students. We providing the following parking zones in the campus with specifying signage boards

- Bicycles parking zone: The faculty members and students residing close to the campus are encouraged to come by bicycles. Thus carbon dioxide emissions are minimized on the campus.
- Two-wheeler automobiles parking zone
- Car parking zone
- College busses parking zones separately with.

## 7.1.5.3 Pedestrian Friendly pathways:

PSCMRCET is well maintained and covered with surfaced bricks. The surrounding members of the Walker's Club also use the premises of the college enthusiastically in the early mornings and late in the evenings. The institute is glowing friendly from side to side bus, car, auto, rickshaw, two wheeler automobiles and train facilities from different places in and around the Vijayawada. Our college is located in One town area, which was heart of the city of Vijayawada. Vijayawada is one of the biggest city in Andhra Pradesh, India.

- Inside the campus we have walkways to go to other branch departments, laboratories, central library, examination cell, canteen, administrative office and so.
- We have lift facility in the campus.

## 7.1.5.4 Ban on use of Plastic:

PSCMRCET celebrating the World Environment Day on every 5<sup>th</sup> of June and organising the activities related to environment protection.

- A pledge was taken by the members of the college community concerning "Take away the use of Plastic" in the Campus to beat the plastic pollution.
- Everyone in the campus took initiatives to make the campus Plastic free zone.
- Volunteers of NSS, Rotaract took major part in such type of activities by conducting rally and awareness activities regarding Swachha Bharat, Clean and Green, Ban of Plastic in and around the college.

## 7.1.5.5 Landscaping with trees and plants

PSCMRCET takes proud initiatives of plantation inside the campus for green campus. The spaces in between the academic blocks have beautifully landscaped lawns. PSCMRCET distributing the plants to all the staff, students every year

We greatly promoting the plantation of medicinal plants along with nursery in the campus every year.

- College takes the advantage of free plant from nursery and plantation takes place in and outside the campus every year with the support of NSS, Rotaract volunteers.
- Our college impressively traditional banana trees, cilantro, sapota, mango, guava fruits plants and beautiful flower plants other than medicinal plants.

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## POLICY DOCUMENT ON DISABLE FRIENDLY, BARRIER FREE ENVIRONMENT

Recognizing that the Persons with Disabilities constitute a valuable human resource for the country and that a majority of such persons can lead a better quality of life if they have equal opportunities and effective access to rehabilitation measures, the PSCMRCET, with a view to create an environment that provides such people's equal opportunities for protection of their rights and full participation in society, formulated and brought out the National Policy for Persons with Disabilities 2006. The policy outlines specific measures and strategies for ensuring protection of rights of PwDs and their inclusion in the society.

### Objectives:

The institution has disabled-friendly, barrier free environment

1. Built environment with ramps/ lifts for easy access to class rooms.
2. Disabled-friendly washrooms
3. Signage including tactile path, lights, display boards and signposts.
4. Assistive technology and facilities for persons with disabilities, accessible website, screen reading software, mechanised equipment.
5. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material, screen reading

#### 1. Built environment with ramps/lifts for easy access to classrooms

According to the persons with disabilities (PWD) act 2016, discrimination against disabilities are strictly prohibited in the campus.

- a) PSCMRCET intend to provide comprehensive and inclusive teaching and learning environment to students and also employees.
- b) The main aim is to extinguish the barrier and treating all are equal.
- c) The campus constructed meet the terms the PWD norms.
- d) Aiming to this, college made ramps & lift in the campus.

#### 2. Disabled-friendly washrooms

PSCMRCET committed and built washrooms at the ground floor for disabled boys and girls separately to provide the comfortable environment.

#### 3. Signage including tactile path, lights, display boards and signposts.

There is a facility available of several signage and display boards to direct the PSCMRCET and departments, laboratories, library, office, canteen and at parking zones in the institute.

Sufficient lights also available at the path way to walk freely inside the campus.

#### 4. Assistive technology and facilities for persons with disabilities, accessible website, screen reading software, mechanised equipment.

PSCMRCET providing adaptive the strategies by providing assistive software technologies.





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## 5. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material, screen reading.

PSCMRCET is one of the institution from SKPVV Hindu High Schools Committee (SKPVV – Sri Kanyaka Parameswari Vissamsetty Venkataratnam, Est:1906) with a passion to disseminate the education and values in the society by imparting education to the people in all levels in the society. We imparting value based education. PSCMRCET is a service oriented organisation.

PSCMRCET encouraging to afford the human assistance, reader, scribe, soft copies of reading material, screen reading which they needed. Central library is rich in stock of different text book and reference books for students and researcher where soft copies of books and information available.

- In class room teaching, teachers provide the soft copies of materials.
- to the students so that not only the disabled students will be benefitted but also the economically weak students will also be benefitted.

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