Estd. 1989

SIR C.R. REDDY COLLEGE OF ENGINEERING

ELURU - 534 007, Eluru Dist., A.P., INDIA

ACCREDITED BY NBA, APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,
PERMANENTLY AFFILIATED TO JNTUK, KAKINADA

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Ref. No.

Date :.....

Policy Document on Environment and Energy Usage

Sir C. R. Reddy College of Engineering is committed to promoting a healthy lifestyle and a clean environment as the foundation of a good society. The institution makes continuous efforts to create awareness amongst the faculty and the students about maintaining the campus "clean and green". Environment protection is taken up by planting of trees, reducing plastic usage, reducing paper usage, recycling electronic waste, and reducing water waste. "Energy saved is energy generated "This motto is taken seriously and as a way of reducing energy usage, use of non-renewable energy source and eco-friendly devices is promoted. Creating awareness amongst stakeholders on electric energy and consumer load management through conducting energy conservation programs is another goal.

Policies:

- To evaluate our energy consumption and quantify its environmental effect.
- To reduce air pollution by promoting the use of eco-friendly modes of transportation such as bicycles, public transportation, and pedestrian-friendly pathways.
- To install a photovoltaic solar plant for the generation of renewable energy.
- To reduce conventional loads with energy-efficient ones to conserve electricity.
- To establish an organized waste management system.
- To construct a rainwater gathering system.

- To initiate a tree planting campaign.
- To actively collaborate with local groups in the fields of environment, energy efficiency, and sustainable development.
- To advocate knowledge and increase educational resources on energy conservation techniques.

IQAC Coordinator

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GREEN CAMPUS POLICY

Preface:

Sir C.R. Reddy College of Engineering is steadfast in its commitment to a green campus policy. The lush greenery enveloping the campus symbolizes the institution's heightened sensitivity and responsibility towards implementing and supporting environmentally friendly practices. Alongside its impressive infrastructure, including well-equipped laboratories and vast playgrounds, the college's verdant surroundings, teeming with life, enhance its academic and research atmosphere. Despite being primarily a technical institute, it demonstrates remarkable awareness in maintaining an eco-friendly campus. Visitors to the campus are greeted with aesthetically pleasing buildings, splendid lawns, a green open auditorium, recreational areas, and a lush environment conducive to teaching and learning.

Vision:

To create a vibrant and thriving campus environment that prioritizes environmental stewardship, embraces sustainable technologies, and empowers our community to become leaders in sustainability.

Mission:

1. To reduce our carbon footprint and minimize waste generation through innovative solutions and sustainable practices.
2. To promote environmental awareness and education among students, faculty, staff, and stakeholders.
3. To integrate sustainability into campus planning, operations, and decision making processes.
4. To collaborate with local communities and organizations to address environmental challenges and promote sustainable development.
5. To continually evaluate and improve our sustainability efforts through research, monitoring, and feedback mechanisms.

Scope:

All stakeholders of Sir C.R. Reddy College of Engineering: management, staff, students, and campus users are expected to adhere to the green policy and code outlined herein.

Committees, Composition, Roles, and Responsibilities:

Composition of Institutional Green Committee:

1. Principal (Chairman)
2. Vice Principal (Vice Chairman)
3. Office Superintendent
4. Convener - Infrastructure Development
5. Members (Faculty Member Nominees)
6. External member (Industry Nominee)
7. Student Coordinators

Objectives:

1. **Energy Efficiency:**
   a. Implement energy efficient technologies and practices to reduce energy consumption.
   b. Encourage conservation measures such as turning off lights and equipment when not in use.
   c. Explore renewable energy sources such as solar and wind power for campus operations.
2. **Waste Reduction and Recycling:**
   a. Establish comprehensive waste management systems to minimize landfill waste.
   b. Promote waste segregation and recycling initiatives across campus.
   c. Encourage the use of reusable products and alternatives to single use plastics.
3. **Water Conservation:**
   a. Implement water saving measures in campus facilities, landscaping, and irrigation systems.
   b. Educate the campus community about the importance of water conservation and responsible water usage.
   c. Explore rainwater harvesting and grey water recycling systems to supplement campus water supply.
4. **Green Transportation:**
   a. Promote sustainable transportation options such as walking, cycling, carpooling, and public transit.
   b. Provide infrastructure and incentives for alternative transportation methods, such as bike racks and electric vehicle charging stations.
   c. Encourage the use of fuel efficient and low emission vehicles for campus operations.
5. **Sustainable Campus Design and Development:**
   a. Integrate sustainable design principles into new construction and renovation projects.
   b. Prioritize green building certifications such as LEED (Leadership in Energy and Environmental Design) for campus buildings.
   c. Enhance green spaces, biodiversity, and natural habitats on campus through landscaping and conservation efforts.
6. **Environmental Education and Engagement:**
   a. Incorporate sustainability into the curriculum through interdisciplinary courses, research projects, and extracurricular activities.
   b. Organize workshops, seminars, and events to raise awareness about environmental issues and solutions.
   c. Empower students, faculty, staff, and stakeholders to take action and become advocates for sustainability in their personal and professional lives.

Implementation:

1. Establish a Green Campus Committee comprising representatives from various departments and stakeholders to oversee the implementation of sustainability initiatives.
2. Develop a Green Campus Action Plan with specific goals, targets, and timelines for achieving sustainability objectives.
3. Allocate resources and funding for sustainability projects, infrastructure upgrades, and educational programs.
4. Monitor and evaluate progress towards sustainability goals through regular assessments, audits, and performance metrics.
5. Foster collaboration and partnerships with government agencies, non profit organizations, industry partners, and local communities to leverage expertise and resources for sustainability initiatives.

Energy Management Policy:

Committee members must play a vital role in implementing the energy management policy to conserve energy and utilize alternative sources for environmental protection. The following alternative energy sources should be harnessed for sustainability:

Solar Energy:

As part of the energy management policy, solar energy should be harnessed through Solar Rooftop PV Systems, ensuring maximum electricity generation in compliance with the guidelines of the Commission of Alternate Sources of Energy (CASE) under the Ministry of New and Renewable Energy (MNRE), Government of India.

Usage of LED Lights:

To establish an energy-efficient institution, all new constructions should be equipped with LED bulbs. Existing lighting facilities in classrooms, laboratories, auditoriums, halls, and corridors should be replaced with LED bulbs.

Institute Initiatives for Green Campus:

Green Campus:

The institution should initiate efforts to foster a culture of environmental consciousness and sustainability among stakeholders, maintaining an eco-friendly campus through appropriate measures and practices.

Landscaping with Trees and Plants:

The campus landscaping, adorned with greenery, enhances the overall ambiance and safeguards the health of occupants. Trained gardeners and supervisors ensure the upkeep of green spaces, with initiatives such as involving students and staff in "Green Campus initiatives" through programs like tree planting drives.

Pedestrian-Friendly Pathways:

Exclusive pathways for pedestrians, with limited vehicular entry, ensure safe movement within the campus. Signage indicating pedestrian and vehicle pathways, along with green coverage, should be maintained.

Restricted Automobile Areas:

Vehicular entry within the campus should be minimized to reduce pollution, with most areas accessible by foot, bicycles, or e-vehicles. Separate parking areas for staff and students should be provided to alleviate traffic congestion, with barricades restricting automobile access.

Ban on Plastic Usage:

The institution enforces a "zero single-use plastic" policy across all campus facilities and strives to minimize the use of plastic items below 50 microns. Proper waste disposal bins are provided, and alternatives to single-use plastics, from reusable to compostable products, are encouraged.

Use of E-Vehicles and Bicycles:

Members of the institution are encouraged to commute using bicycles, while the usage of electric vehicles is promoted to reduce carbon emissions. E-vehicles are provided for transportation within the campus, further contributing to environmental sustainability.

Conclusion:

As a leading engineering college in India, we are committed to leading by example and setting the standard for environmental sustainability in higher education. By embracing the principles of green campus living and working together as a community, we can create a more sustainable future for generations to come.

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WASTE MANAGEMENT POLICY

Preamble

Sir CR Reddy College of Engineering acknowledges the importance of environmental stewardship and is committed to integrating sustainable practices into its operations. Through proactive waste management strategies, the College aims to minimize its environmental footprint, promote recycling initiatives, and contribute to broader sustainability goals. By adhering to this Waste Management Policy, the College reaffirms its dedication to responsible waste handling and resource conservation.

Purpose

The Waste Management Policy serves as a framework to ensure compliance with environmental regulations, mitigate the impact of waste generation, and foster a culture of sustainability within the College community. By striving for zero waste across all waste categories—solid, liquid, energy, and air—the College aligns its efforts with national sustainability objectives and upholds its social responsibility.

Objective

In pursuit of Zero Waste-to-Landfill status, the College commits to the following objectives:

1. Minimize waste generation while safeguarding environmental integrity.
2. Prioritize the use of natural and renewable resources whenever feasible.
3. Implement the waste management hierarchy: avoid, reuse, recycle, recover energy, and treat & dispose.
4. Comply with relevant waste management laws and regulations established by governmental authorities.
5. Ensure secure handling, storage, and transportation of waste materials on campus.
6. Educate employees and students on waste management practices relevant to their roles.
7. Encourage suppliers to adopt similar waste management policies and practices.

Procedure

The College encourages active participation from both staff and students in recycling efforts. Purchasing decisions prioritize environmental impact and end-of-life disposal costs. Waste management considerations are integrated into landscaping projects and building renovations to promote sustainability throughout campus infrastructure.

Waste Management Compliance

Faculty, administrative staff, and students receive comprehensive training on proper waste management protocols. Daily garbage collection services are contracted with the local municipal waste agency, and an on-site composting facility efficiently processes organic waste. Collection bins are strategically placed in high-traffic areas, ensuring convenient access for waste disposal and recycling.

Waste Minimization

Efforts to minimize waste generation include promoting reusable alternatives, such as water bottles and glassware, and discouraging single-use plastics. The College endeavours to reduce plastic usage, recycle materials effectively, and eliminate disposable items from catering services. Waste water from R.O plants is safely conveyed to Open Pond excavated in the campus, through underground and open channels to utilize the water for ground water recharge, drip gardening and at the same time encouraging the aquatic flora and fauna.

Health and Safety

Waste storage areas are designated for each facility, ensuring compliant containment of waste materials. Secure sealing mechanisms prevent waste leakage, and proper permits are obtained for waste transportation activities.

Reduce and Reuse Management

Faculty members are encouraged to utilize shared resources, such as networked office equipment, to reduce paper waste. Strategies for reducing paper consumption include electronic document distribution and double-sided printing requirements. Unrepairable equipment may be sold to external contractors as a last resort.

Recycling Management

The College promotes responsible recycling of various materials, including food waste, batteries, glass, plastic bottles, metal cans, and electronic waste. Functional computer systems are repurposed within the College or donated to sister institutions in rural areas. General waste segregation ensures proper sorting at disposal sites to maximize recycling efficiency.

Rainwater Harvesting/Recycling

The College implements rainwater harvesting systems to collect and store rainwater for gardening and toilet usage. Rooftop and ground-based harvesting methods channel rainwater to collection points, contributing to water conservation efforts on campus.

Monitoring and Auditing

Daily waste collection activities are monitored by designated staff members, with regular audits conducted by the Eco club and student volunteers. These initiatives promote accountability and inform ongoing waste reduction strategies.

Awareness and Training

To enhance waste management awareness among the College community, recycling containers are labeled with comprehensive lists of recyclable materials. Informational leaflets outlining waste minimization and recycling policies are provided to all new students during orientation. The walls in the campus are written with quotations in English as well as native language Telugu, to create awareness among the stake holders. The Principal's Office collaborates on signage and publications to reinforce awareness of waste reduction initiatives and policy compliance.

By adhering to the principles outlined in this Waste Management Policy, Sir CR Reddy College of Engineering reaffirms its commitment to environmental sustainability and responsible waste stewardship. Through collective efforts, the College aims to achieve its waste reduction objectives and contribute to a greener future for all.

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DIVYANGJAN POLICY

Preamble

Sir C R Reddy College of Engineering is committed to fostering an inclusive and supportive environment for all individuals within its community. The institute recognizes the rights of persons with disabilities (Divyangjan) and acknowledges the importance of providing equal opportunities and access to education, facilities, and services. The institute values diversity and believes in the inherent dignity and worth of every individual, regardless of disability. The institute dedicated to promoting awareness, understanding, and empathy towards Divyangjan individuals among its students, faculty, and staff. Whereas Sir C R Reddy College of Engineering acknowledges its responsibility to ensure reasonable accommodations and support services are provided to facilitate the full participation of Divyangjan students, faculty, and staff in academic, research, and administrative activities. The Organization is committed to upholding the principles of equality, non-discrimination, and social justice for all members of its community. Now, therefore, this Divyangjan Policy is hereby established to affirm Institute's commitment to inclusivity, accessibility, and the promotion of equal opportunities for persons with disabilities.

Purpose

The purpose of a policy is to provide clear guidelines, standards, and procedures that govern specific areas of operation within an organization or institution. These policies establish expectations for behaviour, performance, and decision-making, ensuring compliance with legal and regulatory requirements while promoting consistency across departments. By offering guidance on handling various situations and issues, policies support organizational goals, protect stakeholder interests, and enhance communication among all parties involved. They also help manage risks by establishing protocols for assessment, mitigation, and response. Furthermore, policies foster accountability by assigning responsibilities and outlining consequences for non-compliance, ultimately contributing to the development of a positive organizational culture based on integrity, respect, fairness, and inclusivity.

Objectives

1. **Ensure Accessibility:** The policy aims to ensure that all facilities, programs, and services provided by the organization are accessible to Divyangjan individuals, removing barriers to participation in academic, research, and administrative activities.

2. **Provide Support and Accommodations:** The policy seeks to provide reasonable accommodations and support services to Divyangjan students, faculty, and staff to facilitate their full participation and success within the organization.
3. **Promote Awareness and Understanding:** The policy aims to promote awareness and understanding of disabilities among students, faculty, and staff, fostering an inclusive campus culture that respects and values the diversity of all individuals.
4. **Foster Equal Opportunities:** The policy is designed to ensure equal opportunities for Divyangjan individuals in admissions, employment, and participation in all aspects of academic and professional life within the organization.
5. **Ensure Compliance and Accountability:** The policy seeks to ensure compliance with relevant laws and regulations pertaining to persons with disabilities, while also fostering accountability by providing mechanisms for reporting discrimination and addressing grievances related to disability issues.

Responsibilities

1. Administration and Management:

- Develop and oversee the implementation of the Divyangjan Policy and associated programs.
- Allocate resources and support for accessibility initiatives and accommodations.
- Monitor progress and evaluate the effectiveness of the programs.

2. Disability Support Services Office:

- Serve as the central point of contact for Divyangjan students, faculty, and staff.
- Coordinate accommodations, assistive technologies, and support services for Divyangjan individuals.
- Provide guidance and assistance to students and employees regarding disability-related issues.

3. Faculty and Instructional Staff:

- Design and deliver inclusive teaching practices that accommodate diverse learning needs.
- Implement accommodations as recommended by the Disability Support Services Office.
- Provide timely feedback and support to Divyangjan students to ensure their academic success.

4. Human Resources Department:

- Ensure equal employment opportunities for Divyangjan individuals.
- Provide guidance to hiring managers on inclusive recruitment practices.
- Facilitate reasonable accommodations for Divyangjan employees as needed.

5. Facilities Management:

- Ensure that campus facilities meet accessibility standards and regulations.
- Conduct regular audits to identify and address accessibility barriers.
- Prioritize accessibility improvements based on the needs of Divyangjan individuals.

6. Student Services and Organizations:

- Provide information and resources to Divyangjan students on available support services and accommodations.
- Foster a supportive and inclusive campus community through student organizations and events.
- Advocate for the needs and concerns of Divyangjan students within the university.

7. Information Technology Services:

- Ensure that digital platforms, websites, and online resources are accessible to Divyangjan individuals.
- Provide training and support for the use of assistive technologies and accessible software.
- Collaborate with the Disability Support Services Office to address technology-related accessibility issues.

8. Equal Opportunity Cell or Diversity and Inclusion Office:

- Monitor compliance with the Divyangjan Policy and related regulations.
- Provide guidance and support to departments and units on implementing inclusive practices.
- Address complaints or concerns related to disability discrimination or accessibility barriers.

Review and Revision

Periodically review this policy to ensure its effectiveness and relevance, making revisions as necessary.

Conclusion

The Divyangjan Policy of Sir C R Reddy College of Engineering underscores our unwavering commitment to fostering an inclusive and supportive environment where every individual, regardless of disability, has equal access to education, facilities, and opportunities. Through the implementation of the outlined programs and the allocation of specific responsibilities to various stakeholders, we aim to create a campus culture that promotes awareness, understanding, and respect for diversity. By ensuring accessible infrastructure, comprehensive support services, and inclusive practices, we strive to remove barriers to participation and enable Divyangjan students, faculty, and staff to thrive academically, professionally, and personally. We encourage all members of our college community to embrace the principles of inclusivity, empathy, and equality, and to actively contribute to building a campus environment where every individual is valued and supported. With this policy as our guide, we reaffirm our dedication to upholding the rights and dignity of persons with disabilities, and to fostering a more inclusive and equitable society for all.

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