ISO 9001:2015 | AICTE-CII: GOLD Category Institute | NAAC-'A' Grade Institute (CGPA: 3.21) | NIRF-2021 Rank : 197

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
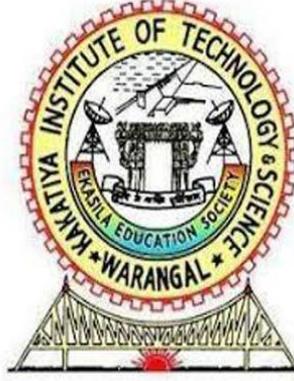Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.
काकतीय प्रैद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना, भारत
కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ – ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము
(An Autonomous Institute under Kakatiya University, Warangal)
(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)
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A Policy Document

on

Environment and Energy usage

Internal Quality Assurance Cell (IQAC)
Kakatiya Institute of Technology & Science, Warangal

Coordinator, IQAC

Principal
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
Opp: Yerragattugutta, Vill: Bheemaram,
Hanamkonda, Warangal-506015. (TS)

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BACKGROUND FOR THE POLICY

About KITSW:

Kakatiya Institute of Technology & Science, Warangal (KITSW) is a private self-financing co-education technical institute, established by Ekasila Education Society (EES) in 1980 by an elite group of philanthropists with an objective to impart quality technical education and provide a strong & ethical human resource base to the society. Hon'ble Ex. Prime Minister Late Shri. P. V. Narasimha Rao inaugurated the institute. Over 42 years, the institute through its quality initiatives has attracted academicians of proven competence as faculty, augmented its infrastructural facilities and has emerged as one of the most sought after institutes in engineering and management education.

The campus of KITSW is spread over an area of 65.04 acre green campus, the institute covered by trees and greenery. Through this policy, students and staff are motivated and encouraged to keep the campus environmentally friendly, pollution free and lush green conserving nature and its resources.

Objectives of the Policy:

- Sensitize and aware students and staff to embrace eco-friendly measures.
- Educatestudents and faculty about environmental hazards and their impact.
- Promote practices like tree planting, measures to safeguard and preserve ecologicalsystems and resources within the campus environment.
- Enhance resource efficiency by reducing energy and water consumption, whileemphasizing waste recovery and recycling.

Green Campus Initiatives at KITSW:

a. **Water management**: As such, wise use of water is a general practice in the Institute. Rainwater harvesting is in practice in the Institute.

b. **Waste management**: Land filling is the general waste management strategy adopted by the Institute a management plan for managing inorganic waste, especially plastics. Biogas plants for effectively managing organic wastes are established in facilities that produce more organic wastes such as canteen, hostels and staff quarters. Further, careless discarding of solid wastes is a common site in many segments of the campus. The campus should be declared free from plastic

carry bags and this should be put into practice strictly. However, more departments are now following green charter and started avoiding flex banners and plastic carry bags and cups for social functions and academic programmes.

c. **Energy management**: A 400kW Grid connected Solar Captive Power Plant at the roof-top of the Block-1, Block-III, Block-IV, Girls Hostel & Boys Hostel Buildings is capable of generating 6.10 lakh units of electricity in a year and it serves as a model for using non- conventional energy sources for future.

d. **Landscape/environment**: Many departments maintain garden and the campus is greener with fair biodiversity around and gardens maintained by many departments. Absence of long-term eco-restoration programmes for replacing exotic Acacia plantations and land use and development planning remain as a lacuna.

e. **Built-up Environment**: In general, the built-up environment is not so eco-friendly and there is a need for adopting green habitat concept in future planning of buildings.

f. **Transportation**: Majority of the students in the campus rely on own Transport and many public transport, indicating lesser carbon foot print of the student community.

g. **Green Agenda in Syllabus**: Green agenda form part of the curriculum in many departments and eco/nature clubs remain active for the cause of environmental protection, though it is not a common practice in all the departments in the campus.

h. **Water Quality:** In general, is within the stipulated standards**,** as there is a 2000 ltr/hour Reverse Osmosis water plant is installed & being used for drinking purpose.

Energy Conservation Measures:
- All the tube lights in the campus are replaced by LED battens.
- Switch off fans, LED lights when not in use.
- Lab equipment is to be switched off during non-practical hours.
- Activate power saving mode for computer monitors, CPU, printers, etc. and switch them off when not in use for prolonged periods.

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Landscaping with trees and plants:

- Regular maintenance of the green area and gardening with the help of a dedicatedteam of gardeners.
- Use of drip irrigation systems for green areas.
- Plant more trees within and outside the campus as part of the Go Green Campaign.
- Focus on wastewater management and solid waste management through SewageTreatment Plant (STP).
- Timely repair of water leakages, like dripping taps.
- Implement rainwater harvesting techniques, including bore well recharge systems.
- Implementation of a biogas plant to deal with food waste from hostel, mess and Staff Quarters.

Discourage use of plastic, e-waste management

- Discourage the use of single-use plastic within the campus.
- Collection and disposal of e-waste at regular intervals

Encouraging e-Governance and reduce paper work

- Promote paperless practices, utilizing technology with the help of ERP and GoogleClassroom for sharing data and lecture notes.
- Reuse single-sided printed paper for rough work.
- Data is maintained on ERP and/or Google Workspace. Printing of the documents tobe done only when essential.

Other initiatives for Environment and Energy Usage

- Installation of solar water heaters in the Girls' Hostel.
- Placement of display boards to promote environmental awareness on the collegecampus.
- Commemoration of environmental days and events like Environment Day, SwachhataAbhiyan, and Gandhi Jayanti.
- Participation in activities through NSS club to create awareness on importance of environment within and outside the campus.
- Organizing tree plantation drives
- Conducting green, environmental, and energy audits.

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