



CITY ENGINEERING COLLEGE

Approved by AICTE New Delhi & Affiliated by VTU, Belagavi
Doddakallasandra, Off Kanakapura Main Road,
Next to Gokulam Apartment, Bangalore - 560 062.



CRITERION 7: INSTITUTIONAL VALUES AND BEST PRACTICES

KEY INDICATOR: 7.2: Best Practices

Metrics Number: 7.2.1: Describe two best practices successfully implemented by the
Institution as per NAAC format provided in the Manual

Best Practice: 1

1. Title of the Practice:

CEC samudayik vrksharopana abhiyana – A green Campus initiative

2. Objectives of the Practice:

- Water conservation through Rainwater Harvesting and ground water Recharge at campus and accurate use of available water.
- Plantation program at campus and surrounding Rural Community to maintain clean Eco-friendly Environment
- To foster awareness among students, the “Campus Beyond” Initiative were targeted both within and beyond campus through educational campaigns
- Maintaining barrier free environment within campus
- Conservation as well as generation energy.
- Effective waste management.

3. The Context

Today there is a great need for conservation because we are facing several environmental problems. CEC campus is categorized as playground and gardens. A huge area is left in its natural form and acts as a natural habitat for biodiversity. The variety of plantation involves organic vegetable garden, medicinal plants, flora and fauna which helps in the recharging of groundwater. The dried leaves fallen across the campus will be used to prepare manure using compost pit. A barrier free environment is created for physically disabled (Divyangjan) and senior citizens by placing braille signage boards across campus, lifts, ramps etc., Our college has been consistently working towards creating and maintaining an eco-friendly and clean campus.

4. The Practice

- Maintaining plastic-free Zone by placing Wet and Dry segregation units by waste bins
- Energy conservation measures like Solar panels, solar based sensor street lights, LED lights, wind mills that act as great source of renewable energy in producing and saving electricity.



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- Water conservation measures like Watering plants without wasting. rain water harvesting, ground water recharge, deploying sensor-based tapes at wash rooms are some of the practices
 - Numerous tree plantation drives.
 - Clean RO drinking water.
 - Exhaust fan is installed in the laboratory to expel hazardous gases.
 - Compost Pit.
 - Solid and E-waste management.

CEC - Green Campus Initiatives: -

Plantation:

- The different varieties of plant species are planted at defined intervals in the campus with the help of student volunteers and stake holders
- we have organized various programs in Campus for creating green and clean atmosphere through campus beyond initiative programs

Conservation of energy:

- Tube lights and bulbs have been replaced with CFL and LED lamps.
- Optimum power utilization is practiced due to deployment of solar panels, solar based sensor street lights and wind mills.
- Students are provided safe and clean RO drinking water by placing RO water unit.
- Compost Units and dustbins for waste management and plastic free campus

5. Evidence Of Success

- College is able to save electricity bills due to above initiatives and is evidenced from the past electricity bills.
- Water conservation methods have helped us solve scarcity of water during summer through rain water harvesting connected to sump and ground water recharge of borewells.
- Through workshops/presentations/seminars/NSS/drives, students are made realized of their duties towards the environment. Our students visit nearby villages for educating the local people which leaves an impeccable impression on society.
- A mandatory subject on environmental awareness is taught.

6. Problems Encountered and Resources Required

Our institution has also been facing some limiting factors that restrict the campus to go green.

- Persistent power cuts force the institutions to use gensets.



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- Hard to inculcate perfect self-sustained approach in students.
 - The Institution needs government support for a sustainable future for human family.

7. Notes:

The college has displayed various slogans on environmental awareness in the campus to maintain plastic free zone through initiating green eco-space campaign successfully. These slogans encourage students to protect plants and keep the environment eco-friendly.

Best Practice: 2

Title of the Practice:

Pathway to Innovation: Value-Added Programs & Project Expo

Objectives of the Practice

- To enhance students' practical knowledge through industry-relevant value-added programs.
- To bridge the gap between theoretical knowledge and its practical application.
- To foster innovation and problem-solving skills by showcasing student projects.
- To encourage student participation in interdisciplinary and collaborative projects.
- To prepare students for real-world challenges and enhance employability.

The Context

The **Value-Added Programs & Project Expo** was initiated by CEC to complement the academic curriculum by offering them additional skills through value-added courses. This initiative is aligned with the objectives of CEC to create a holistic learning environment where students can apply their classroom learning to practical projects.

The challenge was to identify industry-relevant areas and ensure the seamless integration of these programs without overburdening students. Additionally, organizing the expo required extensive planning to effectively showcase projects in a manner that would demonstrate innovation, technical skills, and real-world problem-solving abilities.

The Practice

Value-Added Programs: These programs were designed to equip students with additional technical skills outside their academic syllabus. Topics Like **Data analytics, cloud computing (AWS), IoT, artificial intelligence, machine learning, Embedded System, MATLAB** etc. Expert industry professionals were invited to deliver these courses.



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Project Expo:

- A platform for students to present their innovative projects based on the knowledge they acquired during their courses.
- Projects spanned various domains like software development, embedded systems, IoT, and AI.
- Evaluation panels consisted of industry experts, alumni, and faculty members to provide feedback.

Key Activities:

- Organizing workshops and seminars as part of the value-added programs.
- Guidance and mentorship for students in their project development.
- Collaborative work between students from different disciplines.

Evidence of Success

- **Participation:** A significant number of students (200+) enrolled in the value-added programs, and around 50+ projects were exhibited during the expo.
- **Industry Feedback:** Industry experts appreciated the level of innovation and technical expertise demonstrated by students. Several projects were identified for potential incubation or further development.
- **Student Impact:** Many students reported improved understanding of practical applications, which helped in internship placements and job interviews.
- **Recognition:** Some projects received awards and accolades at intercollegiate tech fests and hackathons.

Problems Encountered and Resources Required

Challenges:

- Balancing the value-added programs with the regular academic schedule without causing overload.
- Ensuring the availability of expert instructors and updated course content.
- Managing resources, especially for hardware-based projects (IoT, embedded systems).

Resources Required:

- Collaboration with industry partners for mentorship and resource support.
- Infrastructure, such as dedicated lab spaces, to conduct workshops and seminars.



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- Funding for project materials and tools (for hardware-based projects).

Notes:

The **Value-Added Programs & Project Expo** at CEC has proven to be an effective initiative in promoting practical learning, enhancing student skills, and fostering a culture of innovation. The institute plans to continue and expand this initiative by offering more specialized courses and encouraging a broader range of interdisciplinary projects.