



# Bapatla Engineering College :: Bapatla

(Autonomous)

## Environment & Energy Usage Policy



**Bapatla Engineering College:: Bapatla**  
(Autonomous under Acharya Nagarjuna University)  
(Sponsored by Bapatla Education Society)  
BAPATLA - 522102 Guntur District, A.P.,India  
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## Environment Policy

Bapatla Engineering College is an eco friendly conscious college that protects its own environment with its green campus initiatives and maintains a pollution free campus. The college is known for its "clean and green" campus where environmental friendly practices and educational system jointly promote sustainable and eco friendly ambiance in the campus. A subject "Environmental Studies" is introduced in the curriculum to motivate environmental awareness among the students. With the object of eco friendly campus, the following policies are framed.

The focus areas of this policy are

- Clean campus initiatives
- Landscaping initiatives
- Clean air initiatives
- Infrastructure
- Waste management processes
- Awareness initiatives
- Implementation of Environment audit
- Plastic free campus

Objectives of the policy:

- To protect and conserve ecological systems and resources within the campus
- To ensure judicious use of environmental resources to meet the needs and aspiration of the present and future generations.
- To continuously improve the college contribution to climate protection and adaptation to climate change and to the conservation of global resources.
- To make the campus plastic free.
- To minimize the use of paper in administration through e-governance.

### Clean campus initiatives:-

Bapatla Engineering College had pledged to actively coordinate cleanliness activities in the campus and beyond the campus in accordance with the vision of "Swachh Bharat Abhiyan".

1. Generating mass awareness on cleanliness and hygiene amongst students and staff members by holding regular cleanliness drives.
2. NSS and NCC teams of the college to participate the activities under "Swachh Bharat Abhiyan".
3. Organize events such as poster and slogan competition, essay writing, speeches on Swachh Bharat.
4. Conduct rallies on themes connected with "Swachh Bharat Abhiyan" around the villages nearby to create mass awareness.
5. Administer of the pledge by students and staff members to maintain cleanliness of the college campus and its surrounding areas.



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## **Landscaping initiatives:-**

The campus landscape, like its buildings, can be seen as the physical embodiment of a college's values. It plays a vital part of the life of a campus, providing space for study, play, outdoor events, relaxation and aesthetic appreciation. Green campus landscapes also manage run off, help recharge ground water, and clean and cool the air on campus. The landscape serves as a visual representation of the campus community's commitment to sustainability. As campus landscapes are so visible and accessible, landscaping initiatives are a great way to build awareness around the environment. The landscape of trees and plants provide the students and staff with clean and cool air is a soothing environment.

## **Clean air initiative:-**

The college encourages the students and staff to use the transportation facility provided by the college, instead of using individual vehicle, an activity that will control air pollution and strengthen social interaction. The entry of automobiles around the campus is restricted and parking facility is provided at the entry gate. The students are instructed to maintain the campus clean. A gardener and supporting staff are appointed for the maintenance of litter free "clean and green" campus. The college strictly prohibits smoking and the use of other tobacco products.

## **Infrastructure initiatives:-**

Water conservation through rain water harvesting system:

The institution collects rain water from surface runoff, building roof tops and redirects it to a deep pit, and a borehole to reach the water table through percolation so that it seeps down and restores the ground water.

## **Waste Management Processes:-**

Bapatla Engineering College strives to have a minimal impact on the environment and is dedicated to reduce and manage the waste generated by the college campus. The following specific procedures will be undertaken to ensure the college contribution in protecting the environment.

### ***Solid waste management***

With the aim to provide holistic education that also has a positive impact on the environment, the college will adopt practices that will mitigate the generation and manage solid waste through the following methods.

- Systematically engage with 3Rs of the environment friendliness(Reduce, Reuse and Recycle)
- Collect paper waste produced on campus and collaborate with scrap dealers for recycling.
- Reduce requirement of printed books by updating the e-books and e-journals collection of the college library.
- Encourage the students and teachers to use emails for assignment submissions.
- Take initiatives to spread awareness amongst students about
  - ✓ Food wastage and ways of minimizing it
  - ✓ Minimizing the use of packaged food
  - ✓ The habit of reusing and recycling non-biodegradable products
  - ✓ Organizing workshops for students on solid waste management.



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## ***Liquid waste management:***

- Maintain leak proof water fixtures
- continued employment of a plumber to take immediate steps to stop any water leakage through taps, pipes, tanks, toilet flush etc.
- Reuse of waste water generated by the Reverse Osmosis(RO) system in gardening.

## ***E-waste management:***

Bapatla Engineering College ensures that its usage of technology and generation of e-waste does not impact the environment. For this purpose, the college plans to strive towards:

- More provisions for the disposal of the institutional e-waste.
- Collaboration with e-waste recycling companies to get electronic waste recycled.
- Awareness amongst students about reduction of e-waste and environment friendly disposal practices for e-waste.
- encouraging department and college level activities pertaining to e-waste management.

## **Awareness Initiatives:-**

Outreach and education are of utmost importance so that all members of the campus community may value the objectives of the policy and aid in its implementation. The college supports and encourages awareness campaigns, seminars, workshops and other interactive sessions to facilitate effective implementation of the environment policy.

## **Implementation of Environment Audit:-**

The college conducts environmental audit every year to identify, quantify, describe and priorities a framework of environment sustainability in compliance with the applicable regulations, policies and standards.

## **Plastic free campus:-**

Bapatla Engineering College has been observing most of its duties in terms of solid waste management since its inception. In view of the Government of India's resolution to ban all single use plastics due to the hazardous impact of plastic use, the college administration strictly bans the use of single use plastics in its premise to make it a "plastic free campus".

## **Energy Usage Policy**

Bapatla Engineering College believes in the usage and application of technology in consumption of energy with a view to enhance energy efficiency and reduce ecological damage to the human mankind. As using conventional energy sources would increase the carbon foot print, BEC has incorporated alternative energy sources in the form of photo voltaic solar energy generation to meet its ever-increasing energy demands. To identify and reduce the energy losses energy audit is conducted periodically and appropriated measures are taken to plug the energy losses.

- To improve in energy efficiency and to reduce energy consumption
- To minimise the energy consumption by use of energy efficient equipment and maximize use of day light and natural ventilation.



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- To assess our energy usage and measure its impact on the environment.
- To improve power factor of the overall system.
- To rely less on fossil fuels for back-up power supply.
- To use 5-star BEE standard equipment to save energy.

## Action Plan:

- Sustainable power generation from 400KW solar plant installed in the campus to cater its own power demand.
- Installation of 300 KVAR capacitor banks for automatic power factor correction.
- Integration of 500 KVA DG set and 400 KW PV solar plant using Surya Logic Controllers to rely less on fossil fuels at the time of power failure from the grid.
- All halogen and conventional street lamps is replaced with efficient LED lamps
- Automatic motion detector and LDR sensor-based lights are installed to save the power.
- Electrical Vehicle charging ports are installed in the campus to encourage students and staff to use battery electric vehicles.

The Institute shall continuously review and update the approved policy and is committed to its implementation.



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