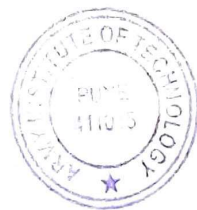


BEST PRACTICES

IN

AICTE APPROVED INSTITUTIONS



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION,
NEW DELHI- 110070

Institute Name: Army Institute of Technology
Institute State: Maharashtra
Institute Address: Pune-Alandi Road, Dighi Hills, Pune - 411015
Principal Name: Dr. B. P. Patil
Contact Number: 9689907475 Email : principal@aitpune.edu.in

Best Practices By Institute:

Best practices followed in AIT Green Initiative

Energy conservation

- Automatic power factor controller (APFC) is installed in the power house which gives power factor of unity.
- Almost all street lights, toilets and corridors are provided with the LED fittings.
- Auto flush and auto cut off system is installed in the hostel toilets to save electricity and water.

Use of renewable energy

- Interactive solar power generating system of 225 KW is provided on the roof top of the academic building. With the installation of this system 40 to 45 % of the total electricity requirement is met.

It also has additional advantages like: no escalation in power cost for 25 years, up to 20% rebate in property tax under Green Building Norms, uninterrupted energy use during day time round the year.

- Apart from this solar water heating system is provided in all boys and girls hostels for hot water requirement.

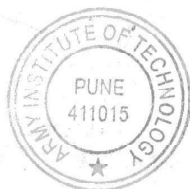
Water harvesting

- Water recycling or waste water treatment plant of 200 m³ or 2,00,000 liters capacity has been constructed. The principle of the treatment is based on Phytoid technology. The Phytoid Technology treatment is a subsurface flow type in which waste water is applied to cell/system filled with porous media such as crushed bricks, gravel and stones. It consists of three zones (i) Inlet zone composed of crushed bricks and different sizes of stones (ii) Treatment zone consist of same media as in inlet zone with plant species and (iii) Outlet zone. Daily 150 m³ or 1,50,000 liters recycled water is available. This is being used for landscaping of the institute. Institute also proposes to further use this recycled water for flush systems. This would save 30% of fresh water.
- Rainwater harvesting is being done near Hostel Flank "H". This is being further developed in the current year.

Efforts for carbon neutrality

- By conserving and reusing energy the need for excessive use of fossil fuels can greatly reduce, thus reducing carbon emissions. Installing solar panels helps in reducing carbon emissions. The installation of 225 KW solar power systems has saved the amount of carbon dioxide released into the

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[Signature]
Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015

air. Thus the emission of carbon dioxide is well controlled with these efforts in the institute to achieve carbon neutrality.

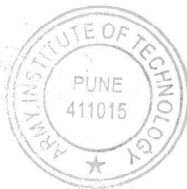
Plantation


- Every year students along with the garden staff plant trees. The saplings have been obtained from Vanrai NGO or donated by Tata Motors. Subsequent care is taken by the gardeners. Due to this program over the years the campus has become lush and green. Also, a herbal garden consisting of plants with medicinal values is cultivated in the college campus.

e-waste management

- E waste generated is first reused in the campus itself. Then discarded waste is disposed off by board of officers to authorized vendors

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