



Evidence(s)

THE-Impact Ranking



Institute : Trident Academy Of Technology
Country : India
Web Address : <https://tat.ac.in/>

SDG11: SUSTAINABLE CITIES & COMMUNITIES

11.4.8 Planning development - new build standards

Trident Academy of Technology (TAT) prioritizes sustainable planning and development, especially when it comes to new building standards. The institution adopts a comprehensive approach to ensure that all new construction projects align with modern sustainability practices and contribute positively to the environment and the community. Here are key aspects of TAT's planning and development standards for new buildings:

1. Sustainable Design Principles

New buildings at TAT are designed with sustainability in mind, utilizing eco-friendly materials and energy-efficient technologies. This includes optimizing natural light, ventilation, and thermal insulation to reduce energy consumption.

2. Green Building Certifications

TAT aims to achieve recognized green building certifications, such as LEED (Leadership in Energy and Environmental Design) or equivalent standards. This commitment demonstrates adherence to best practices in sustainability and resource management.

3. Energy Efficiency

New constructions are equipped with energy-efficient systems, including LED lighting, high-efficiency HVAC systems, and renewable energy sources like solar panels. This reduces the overall carbon footprint of the buildings.

4. Water Conservation

The planning process incorporates water-saving technologies, such as rainwater harvesting systems, low-flow fixtures, and grey water recycling, to minimize water consumption and promote conservation.

5. Sustainable Landscaping

Landscaping around new buildings is designed to enhance biodiversity and reduce maintenance costs. Native plants are prioritized to minimize water usage and support local ecosystems.

6. Accessibility and Mobility

New buildings are designed to be accessible for all, adhering to universal design principles. This includes creating pedestrian-friendly pathways, ramps, and facilities for individuals with disabilities.

7. Community Engagement

TAT engages with the community during the planning phase of new constructions to gather feedback and ensure that the developments meet local needs and preferences. This collaborative approach enhances community support and ownership.



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8. Integration of Technology

Incorporating smart technologies is a priority, enabling energy management systems, occupancy sensors, and automated controls that enhance the efficiency and sustainability of the buildings.

9. Sustainable Materials

The use of sustainable, locally sourced materials is emphasized to reduce transportation emissions and support the local economy. Materials are selected based on their environmental impact and lifecycle assessment.

10. Lifecycle Assessment

TAT conducts lifecycle assessments of new buildings to evaluate their environmental impact from construction to demolition. This helps in making informed decisions that prioritize sustainability throughout the building's lifespan.

By adhering to these new build standards, Trident Academy of Technology aims to create a sustainable campus environment that reflects its commitment to responsible development, enhances the quality of life for its community, and serves as a model for future construction projects.

Description:

Natural lighting and ventilation, sustainable design, water efficient appliances, energy efficient appliances and natural stone (Laterite) is used in the construction of the building.

.green club initiative

Policy- Energy efficiency standard for building policy

Policy- <https://tat.ac.in/wp-content/uploads/2024/11/Energy-Efficiency-Standards-for-Buildings>

Policy.pdf



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SDG11: SUSTAINABLE CITIES & COMMUNITIES



CERTIFICATE

PRESENTED TO

TRIDENT ACADEMY OF TECHNOLOGY

F-2, Chandika Industrial Estate In front of Infolcity, Infolcity
Chandrasekharpur, Bhubaneswar Odisha - 751024

Has been assessed by EHS Alliance Services for the comprehensive study of environmental impacts on institutional working framework to fulfil the requirement of

GREEN AUDIT

ACADEMIC YEAR 2022-23

The green initiatives carried out by the institution have been verified on the report submitted and was found to be satisfactory.
The efforts taken by the management and the faculty towards environment and sustainability are appreciated and noteworthy.


SIGNATURE

11.05.2024
DATE OF AUDIT

EHS ALLIANCE SERVICES, PLOT A-72, SURYA VIHAR, GURUGRAM, 122001
WWW.EHSALL.IN | BUSINESS@EHSALL.IN | EHSALLIANCE@GMAIL.COM



CERTIFICATE

PRESENTED TO

TRIDENT ACADEMY OF TECHNOLOGY

F-2, Chandika Industrial Estate In front of Infolcity, Infolcity
Chandrasekharpur, Bhubaneswar Odisha - 751024

That has been assessed by EHS Alliance Services for the comprehensive study of Energy Audit on institutional working framework to fulfil the requirement of

ENERGY AUDIT

ACADEMIC YEAR 2022-23

The energy-saving initiatives carried out by the institution have been verified in the report submitted and were found to be satisfactory.

The efforts taken by management and faculty towards all types of energy used in the institution and sustainability are highly appreciable and noteworthy.


SIGNATURE

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ENVIRONMENT AUDIT

ACADEMIC YEAR 2022-23

The environment legal compliances and initiatives carried out by the institution have been verified on the report submitted and were found to be satisfactory.

The efforts taken by management and faculty towards environment and sustainability are highly appreciated and noteworthy.


SIGNATURE

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