



BEST PRACTICES

2025-26

Best Practice 1: Motion Sensor Light System for Energy Conservation

Best Practice 2: TechFest for Awareness of New Trends in Technology

**Document of IQAC,
Vidyasagar University**

Best Practice 1 Motion Sensor Light System for Energy Conservation

(i) Objectives:

The main objective of this practice is to reduce unnecessary electricity consumption in the university campus and to promote energy conservation. The practice also aims to create awareness among students, faculty members, and non-teaching staff about sustainable energy use and environmental responsibility. Another objective is to use modern sensor-based technology to enable efficient energy management and to develop a smart, eco-friendly campus.

(ii) Context:

This practice was initiated on the university campus in 2024 to address unnecessary electricity consumption in classrooms, corridors, offices, washrooms, and residential quarters. In many cases, lights remain on even when rooms are not in use, leading to electricity waste. To reduce this waste and promote energy conservation, the university decided to install motion-sensing light systems in various parts of the campus, including faculty and non-teaching staff quarters.

(iii) Practice:

The university began installing motion-sensing lighting systems in 2024, and each year the number of installations has increased across buildings and campus areas. The motion sensor automatically switches on the light when a person enters the room or area and switches it off after a set period when no movement is detected. The system has been installed in corridors, offices, washrooms, and also in faculty and non-teaching staff quarters. This initiative not only saves electricity but also raises awareness among students and other stakeholders about how technology can reduce electricity consumption and promote energy conservation. The installation and maintenance of the system are carried out by the university's engineering section.

(iv) Evidence of success:

The installation of motion-sensor light systems has resulted in noticeable energy savings in the areas where they have been implemented. The university has been gradually increasing the number of such systems each year, reflecting the initiative's success. The practice has also created awareness among students, faculty members, and staff about energy conservation and responsible use of electricity. The initiative contributes to the development of a green, smart, and energy-efficient campus.

(v) Problems encountered and resources required:

The main challenges include the initial installation and maintenance costs of motion sensor devices. Some sensors require periodic maintenance and adjustment. More financial support is required to expand the system across all buildings and residential areas on campus. Technical staff are required for installation and maintenance. However, in the long run, the system is cost-effective as it reduces electricity consumption and electricity bills.

Sensor lights are installed to the following places in the campus:

- Motion sensor light in corridor and washroom
- Motion sensor installed in faculty quarters
- Motion sensor installed in non-teaching staff quarters

Video link of a sensor bulb:

<https://drive.google.com/file/d/1cTUyU6TdWlmHTG3J8gB1A6MOmCmj7i0b/view?usp=sharing>

Best Practice 2 TechFest for Awareness of New Trends in Technology

(i) Objectives:

The main objective of this practice is to raise students' awareness of new and emerging trends in technology and innovation. It aims to develop students' scientific and technological interests and encourage them to learn modern technologies such as artificial intelligence, data science, the Internet of Things (IoT), robotics, software development, and digital innovation. The practice also provides a platform for students and faculty members to demonstrate their technical skills, innovative ideas, and technological inventions. Another objective is to promote interaction between students, faculty members, industries, entrepreneurs, and financial institutions.

(ii) Context:

This TechFest was initiated in 2025 to create awareness among students about modern technology and industry trends. Many students do not get the opportunity to interact with industry experts and entrepreneurs. Therefore, the university took the initiative to organise TechFest to bridge the gap between academia and industry. The event is generally organised in January each year at the university campus's open-air theatre.

(iii) Practice:

The university organises TechFest annually at the campus open-air theatre. Every year, the Hon'ble Vice-Chancellor of Vidyasagar University inaugurates the event. More than 20 stalls are arranged for small- and medium-scale industries, start-up companies, and technology-based organisations to showcase their products and technologies. Industries and organisations from nearby areas, IIT Kharagpur, and Kolkata participate in the fest. The President of the Paschim Medinipur Chamber of Commerce, industrialists, entrepreneurs, and bank officials are invited and remain present at the fest. They interact with students and provide guidance regarding industry, entrepreneurship, and financial support for start-ups. Some university faculty members and departments also set up stalls to demonstrate their technological innovations and research-based products. The fest also includes project demonstrations, poster presentations, and interactive sessions.

(iv) Evidence of success:

The participation of industries, entrepreneurs, bank officials, and academic departments indicates the success of the TechFest. Students get the opportunity to learn about new technologies, industry requirements, and entrepreneurship opportunities. The interaction between students and industry experts helps students to understand real-world technological applications and career opportunities. The increasing number of stalls and participants each year reflects the program's growing popularity and success.

(v) Problems encountered and resources required:

The main challenges include arranging infrastructure such as stalls and demonstration equipment. Participation by major industries is a major problem because the university is far from Kolkata. Financial support is required to organise the event and invite industry experts. More industry collaboration and sponsorship are required for expanding the fest in the future.

Best practices for the year 2025-26

Tech Fest 2025



Tech Fest 2026



Best practices for the year 2025-26

