

## A smart and personalized learning environment with Interact Office

The Hamdan Bin Mohammed Smart University (HMBSU) uses technology to make the learning environment more engaging, adaptive, and immersive. It combines web-based and classroom learning to lead modern university education.

### Customer challenge

HBMSU aims to provide the smartest learning ecosystem among all education institutions world-wide. With technology forming the basis for instructional delivery, it is the catalyst for creating a smart and adaptive learning environment. The university is also supporting the government's vision for Dubai to be the smartest city in the world.

### Solution

To achieve their goal, the university was equipped with state-of-the-art connected LED lighting with embedded sensors, managed and controlled by Interact Office software.

Notably, the university does not have any light switches. All lighting is controlled either via a smartphone app, by motion sensors or through a central management system. The lighting also automatically adjusts to outdoor light levels.



**“Being the first university in the world to have a smart lighting system will better equip us to deliver highly personalized learning experiences.”**

Dr. Mansoor Al Awar, Chancellor  
Hamdan Bin Mohammed Smart University

## Interact – Making it happen

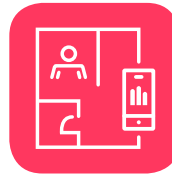
The Interact Office software system is integrated with the university's building management system so that all building systems work together seamlessly. Heating, ventilation and air conditioning (HVAC) are synced to activate according to the class schedule to ensure

student and staff comfort and energy conservation. Sensors detect presence and the lights switch on as students enter the room. Once students vacate the room, the HVAC and lighting are switched off.



### Personalization

Interact Office software and the university's smartphone app provide faculty with the ability to control and personalize the lighting and temperature in their classrooms, helping to improve student and staff comfort and performance.



### Space management

Data collected from the lighting infrastructure provides information about room occupancy and usage statistics, which allows the university to make decisions in a predictive or adaptive manner. These insights help site managers maintain and maximize the building to its full potential, while requests or issues can be addressed quickly.



### Indoor navigation

The lighting infrastructure and Interact Office Indoor navigation are integrated with the university's app. The system uses real-time indoor positioning data to help students find available rooms or lead them to their classes.



### Energy optimization

Energy-efficient LED lighting and smart lighting control minimizes lighting energy usage and helps you achieve your sustainability goals. Data collected over the connected lighting system offers insight for reducing CO<sub>2</sub> emissions and lighting energy costs. Daylight harvesting and occupancy detection let you reduce lighting and other services when not needed.

## Project details

- LED saves 40–50% compared to traditional lighting
- The new system enabled 55–60% reduction in connected load, achieving 15% savings on the total energy bill
- Indoor positioning is enabled by 600 Philips LuxSpace luminaires and Philips Bluetooth beacons in high ceiling areas such as the atrium

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