



ADVANTAGES AND DISADVANTAGES OF ATTENDING SMART UNIVERSITY

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ABSTRACT

The majority of universities have adopted on-campus Internet of Things (IoT) technologies. Massive open online courses and flexible lesson plans are just two examples of recent educational innovations. Big data could be used to analyze student engagement in a course, forum conversations, and blog passages. A "smart campus" is a physical or digital environment where people and technology-enabled systems interact. Smart campuses use a wide network of IoT technologies and digital services to make learning and campus life more engaging, safe, and equitable. Deloitte developed a framework for student engagement to assist institutions in the development of their "smart campus." Collaboration in diverse settings produces better results. Academic misconduct was directly influenced by a rapid transition to e-learning, social culture, and subjective norms. A smart university could potentially be a proper place where all types of emerging and advanced technologies could be examined and applied continuously. Students who are satisfied with innovative e-learning rate the benefits positively and the drawbacks negatively. Innovative ideas for college campuses can enable the use of smart technologies to improve operations and education.

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INTRODUCTION

The studies conducted daily have supported the significance of using technology in the field of education. Numerous technological support pieces of training have been conducted in various educational settings, with positive outcomes. Big Data is a field of study that uses information analysis to make decisions. Due to the growing amount of data being collected and stored in these circumstances, businesses, the government, education, and social insurance are all increasingly being investigated. Massive open online courses and flexible lesson plans are just two examples of recent educational innovations that have fundamentally changed how people learn and teach. According to Chough, Sharma, and Jain, "big data" is a term used to describe large and complex data that calls for clever techniques and clever technology. Given that it has the potential to introduce cutting-edge technological innovations into its operations, big data has today become a hotly contested topic concerning a variety of different sectors, including business, government, and the education sector.

Big data is now a highly debated topic in a variety of different sectors, including business, government, and the education sector. Massive administration, planning, and evaluation support the development of teaching. In higher education, big data includes information gathered about students, teachers, and administration that are directly stored in a database. The institute can learn about students' opinions, social connections, expectations, and objectives when they collaborate with learning technologies.

Big Data could be used to analyze student engagement in a course, forum conversations, and blog passages, which could result in many exchanges between students per course, and all of this data will be gathered to make recommendations for learning strategies. Smart universities can therefore use this technology to raise the caliber of their professors and, in particular, the caliber of the educational experience. The literature review approach was chosen for this study to make it easier to investigate the idea of the smart university while demonstrating its effects on educators, students, and the institution at large. It also demonstrates some of the benefits that big data can offer smart universities.

DEFINITION OF SMART UNIVERSITY

The term "smart university" refers to an emerging idea that is firmly rooted in smart technologies. A smart university prioritizes developing its technological foundation to meet its objectives for high-quality education. Digital technologies must be in line with organizational processes, necessitating more interaction with senior management of the business. (Rico-Bautista et al., 2019)

The Internet of Things (IoT) will transform everything, from simple activities and objects to the most complex, including humans. A university campus may represent the ideal place for the creation of a smart environment. (Marian, n.d.)

OVERVIEW OF SMART CAMPUS

The majority of universities have adopted on-campus Internet of Things (IoT) technologies. Outdated infrastructure may hold some back from modernization efforts. Universities can adopt an IT strategy for smart campus design that suits long-term goals and immediate enrollment and reputation objectives.

Intelligent campuses were one of the top 10 strategic technologies impacting higher education, according to Gartner. A "smart campus" is a physical or digital environment where people and technology-enabled systems interact. Universities can use it to make data-driven decisions to enhance security and make the most of their resources. (Jones, n.d.)

"Smart campus" refers to integrating internet-connected devices throughout an institution. These campuses use a wide network of IoT technologies and digital services to make learning and campus life more engaging, safe, and equitable. The concept is similar to a smart city but on a smaller, more focused scale. (Editorial, 2021)

ADVANTAGES OF ATTENDING SMART UNIVERSITY

A. Academic Excellence

The Smart Campus, also known as the Next Generation Campus, serves as an interface between smart homes and smart cities. Digital natives are offered new experiences that they already know and use in their private lives. A smart campus connects devices, applications, and people to enable new services and improve efficiencies. The networked campus provides a digital foundation that favors implementing new services that make life, learning, and work much more efficient and easier for students and university staff. Smart Campus technologies can reduce both costs and the ecological footprint, as a large part of the building management processes can be automated. Deloitte developed a framework for student engagement to assist institutions in the development of their Smart Campus. Deloitte's Smart Campus report defines four key principles to foster a connected and consumer-centric solution for anyone involved in campus life. The principles are as follows: intuitive and simple to use, Design thinking and persona-centricity Modular, adaptive, flexible, intelligent adaptable, and scalable.

B. Diverse Student Body

Navigating the cross-cultural fabric of campus life is part of the overall learning experience. Interacting with a diverse group of people provides many opportunities to learn from others. The real world is diverse, and a diverse college experience encourages students to think of their careers from a global perspective. Diversity is a win-win situation when it comes to social development. Collaboration in diverse settings produces better results. Campus life is an eye-opener for many students. For many, it is the first taste of freedom and an unfiltered view of the real world.

C. Strong Support System

A smart university could potentially be a proper place where all types of emerging and advanced technologies could be examined and applied continuously as a sustainable evolution. A smart system can be characterized by its ability "to learn" about itself and, therefore, be able "to self-optimize" teaching and learning. The evolution of the educational environment has an impact on learners' determination and description that be used in the learning environment setting and followed in smart-university requirements.

DISADVANTAGES OF ATTENDING SMART UNIVERSITY

In many papers on the quality of e-learning that discuss the cheating problem, the disadvantage of "lack of possibility to reliably verify the student's knowledge or skills" appears. Academic misconduct was directly influenced by a rapid transition to e-learning, social culture, and subjective norms, all of which contributed to shifts in ethical perceptions, leading to increased reports of cheating.

Students who are satisfied with innovative e-learning rate the benefits positively and the drawbacks negatively; students who are dissatisfied with e-learning rate the disadvantages negatively and the benefits positively. Innovative e-learning significantly lowers the cost of studying and makes it easier for people from smaller towns to pursue their educational goals.

CONCLUSION

A. Summary of Advantages and Disadvantages

The Smart Campus, also known as the Next Generation Campus, serves as an interface between smart homes and smart cities. Deloitte's Smart Campus report defines four key principles to foster a connected and consumer-centric solution for anyone involved in campus life. The disadvantage of e-learning is the inability to consistently verify students' knowledge or skills.

B. Final Thoughts on Smart University

1. Smart campus design can advance long-term goals while advancing immediate enrollment and reputation objectives. Outdated infrastructure may hold some universities back from modernization efforts. Innovative ideas for college campuses can enable the use of smart technologies to improve operations and education.
2. A smart campus uses advanced network infrastructure and internet-connected devices to provide supportive and engaging experiences. It allows universities to make insight-driven decisions to improve security and maximize resources. Gartner identified "intelligent campuses" as one of the top 10 strategic technologies impacting higher education.
3. Use data to identify opportunities for inclusive activities or shift employees into meaningful roles. Add value to classroom instruction by offering engagement platforms and self-service technologies. Monitor attendance and resource use at recreational facilities, stadiums, dining facilities, housing, and classrooms. Automate student and faculty processes to support efficiency while maintaining a human-centric approach.
4. Universities must strive to build intelligent environments for learning, living, and teaching. Smart campuses can differentiate their offerings, streamline operational efficiency, and ultimately improve their bottom line.
5. Students expect home-like internet access everywhere, including campus grounds and dorms. Colleges must provide modern campus experiences that are convenient, secure, and personalized. Smart campus solutions include voice-activated assistance, virtual health services, contactless payment options, and real-time occupancy systems.
6. Smart campus solutions help reduce crime while increasing awareness. Internet-connected security services provide students and families peace of mind. Smart locks, geo-fencing, and smart ID cards provide convenient access control. Digital signage and kiosks alert people and help evacuate areas quickly.

7. By connecting buildings and utilities to smart technologies, administrators can reduce overall costs. Automation tools free up administration time and allow higher education officials to redirect resources. Smart campus design collects real-time data that can be used to improve decision-making and revenue-generating opportunities.
8. An always-connected campus gives your university a competitive advantage over its competition, as well as an improved reputational image. By upgrading bandwidth and having a flexible architecture, you can be ready as services and needs evolve. Designing a smart campus is a five-year goal for your organization; walk back from your ideals to identify the steps required to get there.
9. Prepare your college campus for the future by investing in modern, scalable architecture that supports today's educational institutions. The right partner understands the needs of higher education and has proven experience with networking and technology integration.

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