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(51) International classification	:G06Q0050200000, H04L0067120000, G06Q0010063100, H04L0067100000, G06V0020520000	(71) <b>Name of Applicant :</b> <b>1)NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b> Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
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(57) Abstract :

The invention discloses an IoT-based framework for smart campus management systems integrating IoT sensors (101), actuators (102), surveillance systems (103), biometric access (105), environmental sensors (106–108), smart classroom tools (109), and cloud analytics (112). The framework enables real-time monitoring, predictive decision-making, energy optimization, security enhancement, and student engagement. By unifying multiple subsystems into a scalable, interoperable, and intelligent architecture, the invention ensures sustainability, operational efficiency, and improved user satisfaction in educational campuses.

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