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## A Review on Smart Office, Home, Classroom Environment Control

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Abstract: This project develops a comprehensive IoT-based solution for automating and optimizing office environmental conditions, such as lighting, temperature, and air quality, in real-time. The system intelligently adapts to the presence and preferences of employees, ensuring a personalized and comfortable workspace. By detecting occupancy through sensors, it dynamically adjusts settings to suit individual needs, enhancing productivity and well-being. Moreover, it incorporates energy-efficient mechanisms that reduce power consumption by automatically regulating office conditions in unoccupied areas. This approach fosters a sustainable, cost-effective, and user-centric office environment, balancing technological innovation with environmental responsibility. By promoting energy savings and improving employee comfort, this IoT-driven system offers a smart solution for modern office environments. This IoT-enabled solution provides a holistic approach to modern office management, offering an intelligent, user-centric, and environmentally sustainable office environment. It bridges the gap between technological innovation and ecological responsibility by creating a workspace that not only caters to human comfort but also supports global sustainability efforts. With its scalable design, the system can be deployed in offices of varying sizes, making it a versatile solution for both small startups and large corporations alike. The Smart Office Environment Control system is poised to redefine the workplace by fostering a balance between employee satisfaction and operational efficiency while supporting green building initiatives.

**Keywords:** IoT (Internet of Things), Smart office, Environmental control, Real-time monitoring, Energy efficiency, Occupancy detection, Personalized workspace, lighting automation Temperature control, Air quality optimization, Employee comfort





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