IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 5, Issue 3, October 2025
Impact Factor: 7.67

# Auditorium Power Control and Fire Detection System

**Prof. S. D. Lavange[1], Miss. Tejal Patil[2], Miss. Vaishnavi Barhate[3]**
**Miss. Anisha Talole[4], Miss. Tejal Girhe[5], Miss. Sakshi Ingle[6]**
Professor, Department of Electrical Engineering[1]
Students, Department of Electrical Engineering[2-6]
Dr. V. B. Kolte College of Engineering, Malkapur, India

**Abstract:** *The Auditorium Power Control and Fire Detection System is a microcontroller-based project designed to automate power management and enhance safety within auditoriums and large halls. The system integrates sensors to monitor temperature and smoke levels in real-time, ensuring efficient energy use and quick detection of fire hazards. When abnormal conditions such as excessive heat or smoke are detected, the system automatically disconnects the power supply and triggers an alarm to alert occupants. Under normal conditions, it intelligently controls lighting and electrical loads to optimize energy consumption. This project combines automation, safety, and energy efficiency into a single platform using components such as Arduino, temperature and smoke sensors, relays, and buzzers. It demonstrates a cost-effective solution for modern auditorium management and can be further expanded with IoT-based remote monitoring and alert systems for improved reliability and response time.*

**Keywords**: Arduino, Temp. Sesensor, Relay, Buzzer etc


DOI: 10.48175/IJARSCT-29362