Best innovations from VTU Regional Centres

Project Title

AUTOMATIC NURSE ALLERT SYSTEM

Problem Statement

Hospitals, maintenance staff, and cleaners often face situations where immediate assistance is needed but there is no quick way to alert nurses. Delays in communication can affect patient care, safety, and workflow efficiency. An automatic nurse alert system can help by instantly notifying nursing staff when a patient or staff member triggers an alert. This ensures timely response, improves safety, reduces accidents, and supports smooth hospital operations while easing the burden on staff managing multiple areas.

Project Team - Civil



TEAM 2 - PRIME ACHIVERS

Team Members

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SDG 3 – Good Health and Well-Being

SDG Goals

SDG 9 – Industry, Innovation and Infrastructure

Solution

An automatic nurse alert system is proposed to improve patient care by continuously monitoring vital parameters such as heart rate, blood pressure, oxygen saturation, and temperature using reliable sensors. These sensors are connected to a central controller that constantly checks the patient's health data in real time. When any parameter crosses predefined safe limits or shows abnormal trends, the system immediately triggers alerts. Visual indicators like LEDs and audible alarms notify nearby nurses, while digital messages can be sent to doctors or central monitoring stations through connected devices. This ensures that medical staff are informed promptly about critical conditions, enabling them to respond quickly and reduce health risks. The system is designed to operate continuously, making it suitable for hospitals, care units, and emergency rooms. By automating monitoring and alerting, it reduces the chance of delayed intervention, improves patient safety, and supports better healthcare management.



