

THE INTRAVENOUS FLUID INDICATOR

ATAL innovation Summit was conducted on 23rd January of 2024 at MCMB, Chanddippa village, Shankarpally. "Intravenous Fluid Indicator" by Naman Pattanaik, Sanvi Sree and Soham Bilolikar of IX grade secured 1st prize. The Intravenous Fluid Indicator, a scientific marvel, employs the precision of physics and technology to safeguard patient well-being. Anchored by a load cell, it translates tension force into electrical signals, ensuring accurate IV fluid level measurement. A Potentiometer grants customization of alert thresholds, and the Node MCU, driven by code, monitors weight uniformity over time, swiftly detecting anomalies. An emergency buzzer serves as a final shield against air embolism risks. Within this system, Arduino UNO and open-source software orchestrate seamless operation. It's a scientific solution at the forefront of healthcare, ensuring patient safety through precise monitoring and timely alerts.

