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PROJECT REPORT

SMART PORTABLE STUDY STAND

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ABSTRACT

This project is designed with the aim to solve the problem of students that are sleeping during lessons in classroom. The Smart Portable Study Stand helps the students keep awake by spraying mist-like water and scented water. This project uses an Arduino UNO circuit. The circuit is connected to a mercury tilt sensor to detect the movement of a person. When the mercury tilt sensor tilted, it shows that a movement is detected and send the signal to the motor water spray. The water spray will spray mist-like water towards the face with plain water. The water sprays helps the students to alert their mind to keep awake. In this project, a study lamp is also equipped that helps the students to study at dark places. The study lamp uses an ultrasonic sensor to detect objects in front of it to light the lamp during studying. This Smart Portable Study Stand is also portable and can be used anywhere with an adjustable stand and G-clamp like base.