

ABSTRACT

This project involves Classroom Automation (monitoring-magna in Latin) that replaces the manual work and time consumption in the classroom. This system includes an 'Automatic Attendance system' and 'Automatic Power supply Cut-off system' when there are no students in the class. An automated attendance system will record the status of the student, whether he/she is present in the class.

Proper attendance management is crucial for the academic institutions to disseminate and ensure quality education to every student. This paper presents a model of an automated attendance system to alleviate the manual effort of recording data eliminating the chances of fraudulency. The model focuses on how face recognition incorporated with Radio Frequency Identification (RFID) detect the authorized students and counts as they get in and get out form the class room.

Smart Attendance System keeps the authentic record of every registered student and eradicates greatly the traditional tedious task. Moreover, this smart system keeps the data of every student registered for a particular course in the attendance log and provides necessary information according to the need.

By recognizing the face of the individual and verified by Radio Frequency Identification (RFID) simultaneously in our project, the limitations in the existing manual attendance system are mostly eliminated. Another added feature to the project is that we are saving energy by implementing a system using IR modules where the room's electronics only turn on when there are people inside.