Abstract

Attendance is one of the important factors that determine the students rendering. There is a necessity to build a smart system that decrease load in managing the attendance and improves the performance of colleges, universities and any educational institute. The most common actions in educational organizations involve identification of student, maintenance of student attendance, security of attendance and electrical power conservation at the place where the attendance is taken. In this paper, the mentioned topics are considered and present how evolving technologies of radio frequency identification (RFID) and wireless sensor network (WSN) can be used for building a smart university. Prototype is developed considering main cases concerned in a smart university. The system is interesting of smart student attendance, smart automation of electrical items and taking attendance in authenticated manner. Results show that consumption of energy is decreased while authentication and truthfulness of attendance record are increased.

**Index Terms**

Computer Science

Wireless

**Keywords**

RFID  Smart University  WSN  ZigBee  Arduino