Student Attendance using RFID System

Dr H Girish[1], Hemanthi[2], Indu Bai[3], Jagruti[4], Lovely Kumari[5]

Professor and Hod, Department of Computer Science and Engineering[1]

Students, Department of Computer Science and Engineering[2,3,4,5]

Rao Bahadur Y Mahabaleswarappa Engineering College, Ballari, India

Abstract*: An RFID-based attendance system leverages radio frequency identification technology to streamline and automate the process of tracking attendance in various settings, such as schools, workplaces, and events. This system utilizes RFID tags, which are small electronic devices containing unique identification codes, embedded in cards or badges assigned to individuals. When a person with an RFID-enabled badge enters a designated area, RFID readers detect their presence by wirelessly communicating with the tags. This information is then transmitted to a central database or software system, where attendance records are automatically updated in real-time. Compared to traditional methods like manual entry or barcode scanning, RFID-based systems offer greater efficiency, accuracy, and convenience, reducing administrative burden and eliminating possibilities of human error. Additionally, they provide valuable data insights for monitoring attendance patterns, enhancing security, and optimizing resource allocation.*

Keywords: Attendance system, Radio frequency identification technology, SD Card