



SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)

(Approved by AICTE & Affiliated to JNTUA, Ananthapuramu)

(Accredited by NBA for Civil, EEE, ECE, MECH and CSE, New Delhi)

(Accredited by NAAC with 'A+' Grade, an ISO 9001:2008 Certified Institution)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FINAL YEAR PROJECT DETAILS – (ACY 2023 – 24)

BRANCH: ECE /R20

SECTION NO: ECE-1

BATCH NO – 11

PROJECT TITLE: Authentication of ATM PIN by Random Word Generator Using Design Think Frame Work

ABSTRACT:

The main aim of this system the proposed system presents a multi-layered security approach for access control. It initiates with RFID-based authentication, where the user's RFID card is scanned, prompting the system to generate a unique one-time password (OTP). This OTP is then dispatched to the user via GSM technology. Upon receipt of the OTP, the user must input it using a Bluetooth-enabled device, such as a smartphone or tablet. This additional verification layer guarantees that only authorized personnel can proceed further. If the entered OTP matches the one sent, the security door automatically unlocks, granting access. Conversely, an incorrect OTP entry triggers a buzzer alert, effectively thwarting any unauthorized entry attempts. This integrated system seamlessly combines RFID technology, GSM communication, Bluetooth verification, and a robust security door mechanism to establish a secure and user-friendly access control solution, offering enhanced security for various applications.

Reference from IEEE DOI: [10.1109/ICACCS57279.2023.10112662](https://doi.org/10.1109/ICACCS57279.2023.10112662)

KEYWORDS: Arduino, ATM, pin entry, Bluetooth.

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Project Guide

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