



**Ministry of Higher Education and  
Scientific Research, Iraq**

**University of Babylon**

**Information technology collage**

**Information Security Department**

**Morning Study**



# **Secure Student Attendance System Using QR Code Techniques**

**A Graduate Project Submitted to the Department of Information  
Security of the College of Information Technology, University of  
Babylon, in Partial Fulfilment of the Requirements for the Bachelor's  
degree in Information Security of Information Technology.**

**STUDENT'S NAME**

**Hassan Amer Hassan**

**Supervised by**

**Assist. Lect. Azhar Abbas Hadi**

**2023-2024**

## **ABSTRACT**

In modern educational settings, the manual process of attendance registration for students can be cumbersome and prone to errors. To address this issue, we present a mobile application designed to streamline the attendance recording process using QR code technology. The application, developed for Android devices, allows students to log in and register their attendance by scanning a QR code generated by the professor. They are implemented in Java language version 17, utilizing the integrated development environment (IDE) Android Studio version 2023, and SDK API 31. Additionally, the zxing-android-embedded:4.3.0 library is employed to seamlessly generate and read QR codes. This project not only addresses the challenges associated with traditional attendance registration methods but also demonstrates the efficacy of QR code technology in streamlining administrative processes within educational institutions.