



## **FINAL YEAR PROJECT REPORT**

# **LIBRARY MANAGEMENT SYSTEM USING RFID**

**In fulfillment of the requirement  
For degree of  
BEE (Electronics)**

**By**

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## ABSTRACT

The basic purpose of this report is to familiarize our readers with our project "Library Management System Using RFID" and to give them the complete overview of all those achievements and results we have produced through this project. Our fundamental aim was to shift workload from Men to machine. For that we started up our work with the research in the first phase and to meet the requirements of that technology that was needed in Bahria University Karachi campus library, in order to eliminate all those glitches that were faced by the library staff. After the entire research Radio Frequency identification RFID and its limitations that our being utilized by the world today, we came up to this solution very effectively that RFID could be the best possible solution in terms of library management system.

RFID technology has the ability to be used in all those grounds of the world where the product management and the easy approach of identifying any object are needed. Keeping this factor in mind we have successfully meet all the needs of library management. To prove our day and night hard work and research on RFID we designed the prototype of RFID library management system which is also explained in this report.

After the creditable design of prototype we moved to implement the entire technology on the BUKC library for that we did the entire analysis of the RFID technology comparing it with requirements of library staff to eliminate all the issues, we designed the entire 3D modelling of the library using Auto-CAD tool and then made the floor plan of the library to identify the area where antennas of RFID could be placed.

Bahria University Karachi campus funded us with the entire cost for the project the cost of RFID technology was also a great challenge for us and we met that challenge very efficiently by cutting down the cost from 3.2 million to 1.8 million.



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