**Third Year B. Tech (ECE)**

**Semester: VI Subject:** IoT Architectures & Protocols

**Name: Class:**

**Roll No: Batch:**

**Experiment No: 03**

**Name of the Experiment**: **To Study and implement RFID/NFC based application**

**Marks**

**Teacher’s Signature with date**

**Performed on:**

**Submitted on:**

**Aim:** To Study and implement RFID/NFC based application

**Prerequisite:** RFID System, Raspberry Pi 3 Model layout and Pin configuration

**Objective:**

1. To identify pin configuration of Raspberry Pi to interface with RFID
2. To analyze the steps to interface RFID with Raspberry Pi.
3. To verify the reception of data

**Components and equipment required:**

Raspberry Pi 3, Micro SD Card, Power Supply, RC522 RFID Reader with tags, Breadboard, Connecting Wires

* **Key specification and usage of RFID Technology (Working Principal):**
* **Description of specific libraries or commands required:**
* **Procedure:**
* **Pin Connections:**
* **Screenshot of System with complete setup:**
* **Program for RFID Reader:**
* **Screenshot of Working Model:**
* **Output:**
* **Conclusion**
* **Post Lab question answers**