# RFID Technologies at Presidency University, Bangalore

PRESIDENCY UNIVERSITY
GAIN MORE KNOWLEDGE REACH GREATER HEIGHTS
Private University Estd. in Karnataka State by Act No. 41 of 2013
PRESIDENCY GROUP OVER 40 YEARS OF ACADEMIC WISDOM

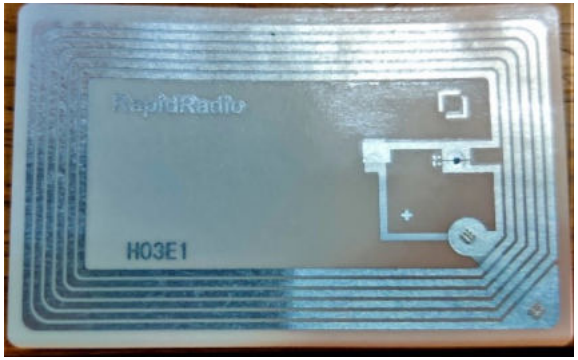
REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

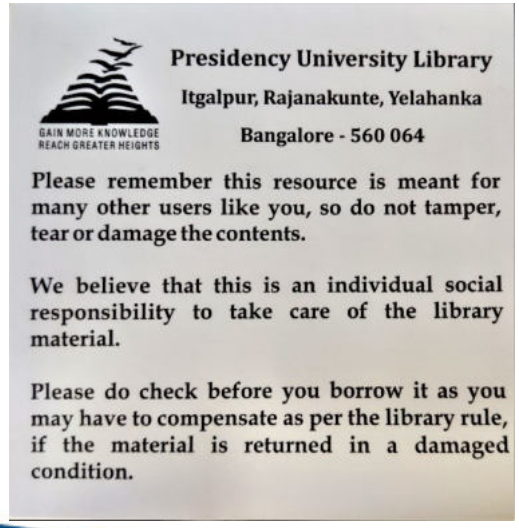
# RFID

- **RFID (Radio Frequency Identification)** is a technology that tracks and identifies tags attached to objects using wireless technology.
- Every RFID-secured library book will have RFID tag struck in the secret place.
- This tag interacts with the security gate sensors.
- Gates raises an alarm when anyone tries to steal a book.
- The security of Library resources can be made more effective.

REGISTRAR
PRESIDENCY UNIVERSITY Registrar BANGALORE

# RFID tags




| Parameter | RRHFT01 |
|---|---|
| Supported Standards | ISO 15693, ISO 18000-3 |
| Transponder IC | I-Code SLI |
| Operating Frequency | 13.56 MHz |
| Transmission Principle | ASK / FSK |
| User Programmable Memory | Upto 2048 Bits |
| Data Retention | 40 Years |
| Programming Cycles | 100000 |
| Operating Temperature | -25°C to +70°C |
| Storage Temperature | -40°C to +85°C |
| Dimensions | Available in various dimensions and shapes |

# Readers

| Parameter | RRHFLB03 |
|---|---|
| Operating Frequency | 13.56 MHz |
| Power Supply | USB Self Powered |
| Power Consumption | 500 mW max |
| Transmitting Power | 200 mW approx. |
| Read Range* | Up to 25 cm |
| Antenna | Internal |
| Communication Interface | USB (HID) |
| Supported Transponders | ISO 15693 and ISO 14443A |
| Indicators | Buzzer for read verification |
| Operating Temperature | 0°C to +60°C |
| Dimensions | 340 X 340 X 20 mm |
| Weight | Approx. 3 kg. |
| Housing Material | Corian Acrylic Polymer |
| Color | White |

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

# RFID Gate Antenna

**RRHFGA3 is a three pedestal antenna to cover wider area for reading of tags.**

| Specifications | |
|---|---|
| **Parameter** | **RRHFGA3** |
| Operating Frequency | 13.56 MHz |
| Power Supply | AC 230V / 50Hz |
| Power consumption | 30W max |
| Transmitting Power | 0.5W to 6W variable |
| Read Range* | Up to 1 m with pair of Gates |
| Communication Interface | RS-232 / Ethernet |
| Supported Transponders | ISO 15693 |
| Operating Temperature | -10°C to +60°C |
| Communication Parameters | Baudrate: 115200 bps |
| Dimensions | 1530 X 559 X 30 mm |
| Weight (1 Panel) | 20kg |
| Housing Material | ABS |

REGISTRAR

PRESIDENCY UNIVERSITY BANGALORE Registrar

# Self Check-In Check-Out Kiosk

**RRHFLB02 is a stand alone multi protocol self check-in check-out kiosk primarily for issue and return of books in Library**

| Specifications | |
|---|---|
| **Parameter** | **RRHFLB02** |
| Operating Frequency | 13.56 MHz |
| Power Supply | 240 V AC 50Hz |
| Transmitting Power | 200mW approx. |
| Read Range* | 3 to 4 books of average size (Up to 250 mm) |
| Antenna Size | 300 X 300 mm |
| Communication Interface | Ethernet |
| Supported Transponders | ISO 15693 and ISO 14443A |
| Operating Temperature | -10°C to +70°C |
| Dimensions | 585 X 585 X 1475 mm |
| Weight | 100 kg approx. |
| Display | 17” LED touchscreen display |

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

PRESIDENCY UNIVERSITY

Private University Estd. in Karnataka State by Act No. 41 of 2013

PRESIDENCY GROUP OVER 40 YEARS OF ACADEMIC WISDOM

# Book Drop Box

**RRHFBD01 is stand alone book return station primarily used for returning library books.**

| Specifications | |
|---|---|
| **Parameter** | **RRHFBD01** |
| Operating Frequency | 13.56 MHz |
| Power Supply | 240 V AC 50Hz |
| Transmitting Power | 200mW |
| Cart Size | Up to 150 books |
| Drop Method | One book at a time |
| Antenna Size | 300 X 300 mm |
| Communication Interface | Ethernet |
| Supported Transponders | ISO 15693-3<br>ICODE |
| Operating Temperature | -10°C to +70°C |
| Dimensions | 915 X 717 X 1664 mm |
| Weight | 150 kg approx. |
| Display | 17” LED touchscreen display |

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

PRESIDENCY UNIVERSITY
GAIN MORE KNOWLEDGE REACH GREATER HEIGHTS
Private University Estd. in Karnataka State by Act No. 41 of 2013
PRESIDENCY GROUP OVER 40 YEARS OF ACADEMIC WISDOM

# Handheld Reader

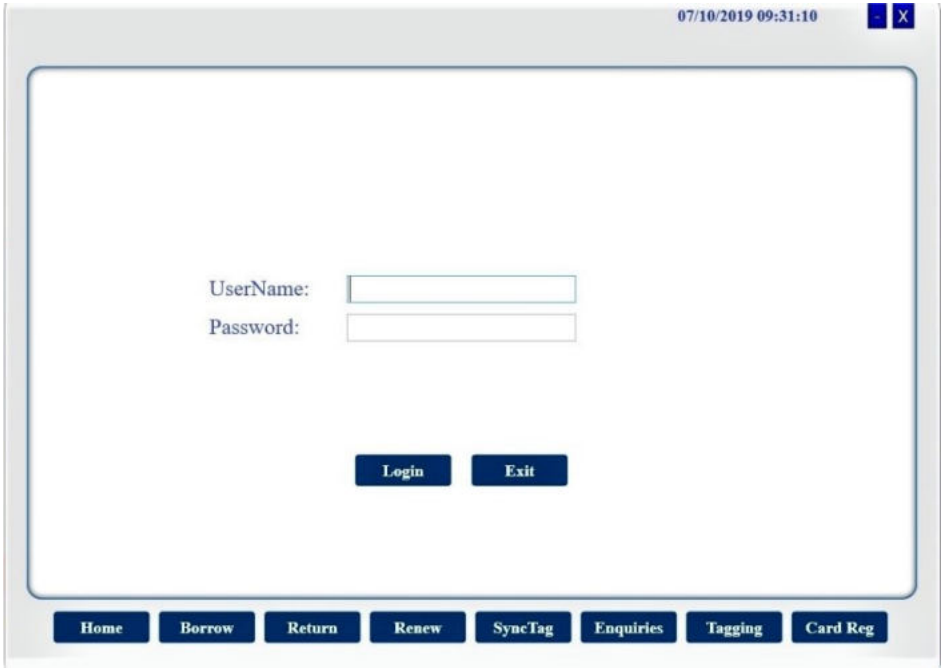
**RRHFHH3 is a high end handheld reader loaded with WIN CE platform for easy application development.**

| Specifications | |
|---|---|
| **Parameter** | **RRHFHH3** |
| Operating Frequency | 13.56 MHZ |
| Power Supply | 5 V / 3 A DC Adapter |
| Antenna | Internal Antenna |
| Main Battery | Lithium Ion 3.7V, 2800mAh (Rechargeable) |
| CPU | CPU |
| Transmitting Power | Upto 1 W max. |
| Read Range | Up to 10cm* |
| Communication Interface | USB |
| Supported Transponders | ISO 18000-3 Mode 1 |
| Indicators | Touchscreen Display, Buzzer |
| Operating Temperature | 0°C to 40°C |
| Storage Memory | Expandable Upto 1 GB |
| Weight | 500 gms approx. |
| Dimensions | 500 gms approx. |

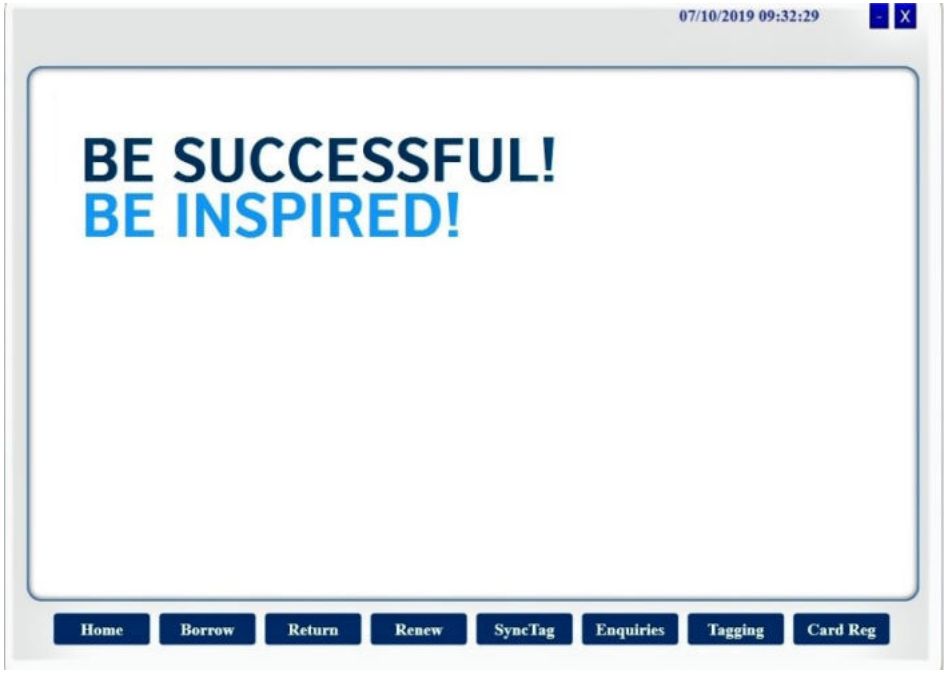
REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

# Login Page




# Home Page




REGISTRAR

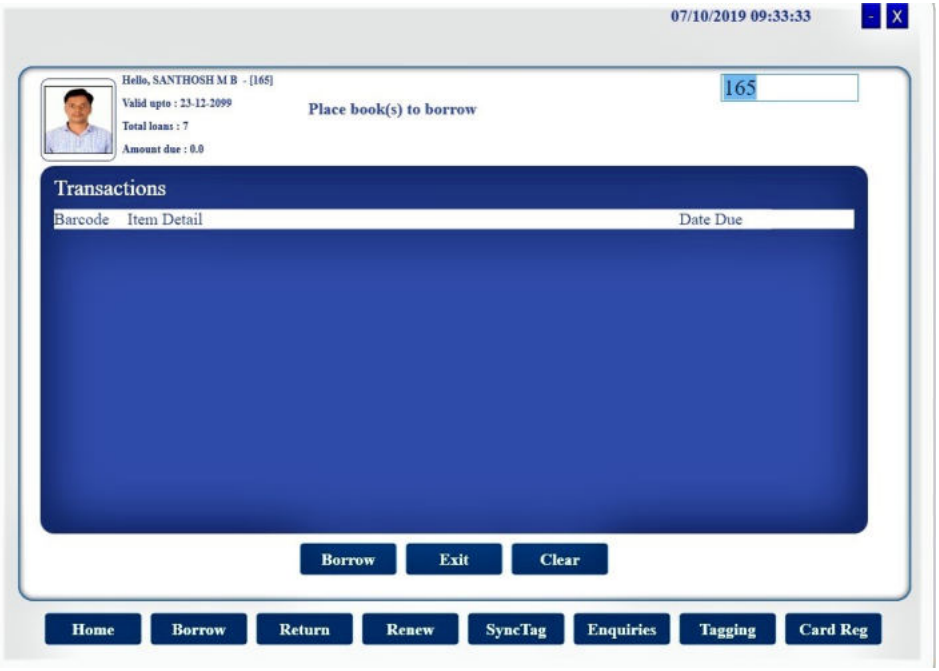
PRESIDENCY UNIVERSITY BANGALORE Registrar

PRESIDENCY UNIVERSITY

Private University Estd. in Karnataka State by Act No. 41 of 2013

OVER 40 YEARS OF ACADEMIC WISDOM

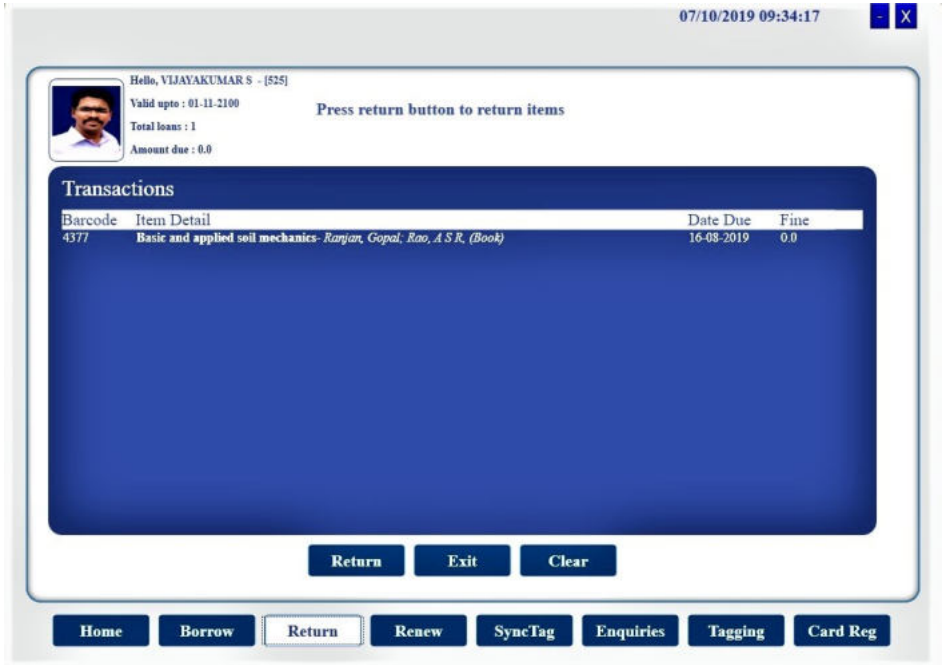
# Book Borrow



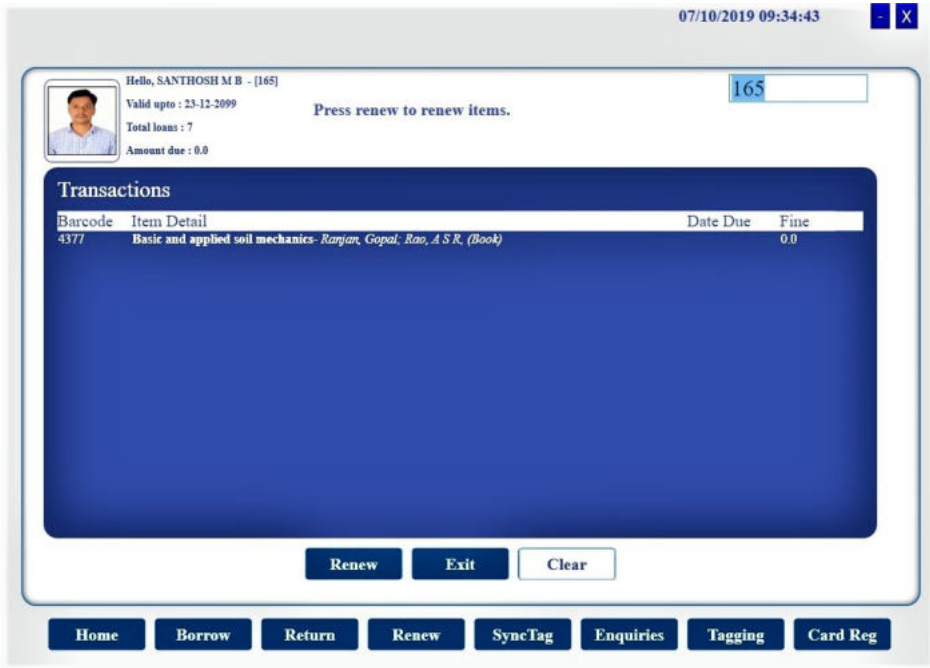
REGISTRAR

PRESIDENCY UNIVERSITY ★ Registrar ★ BANGALORE

# Return




# Renew

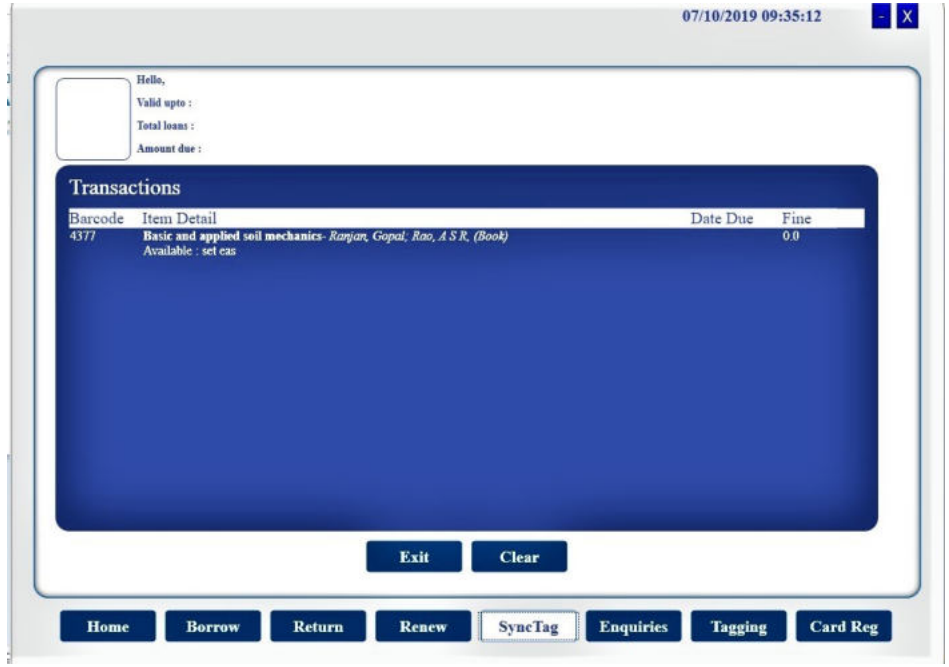




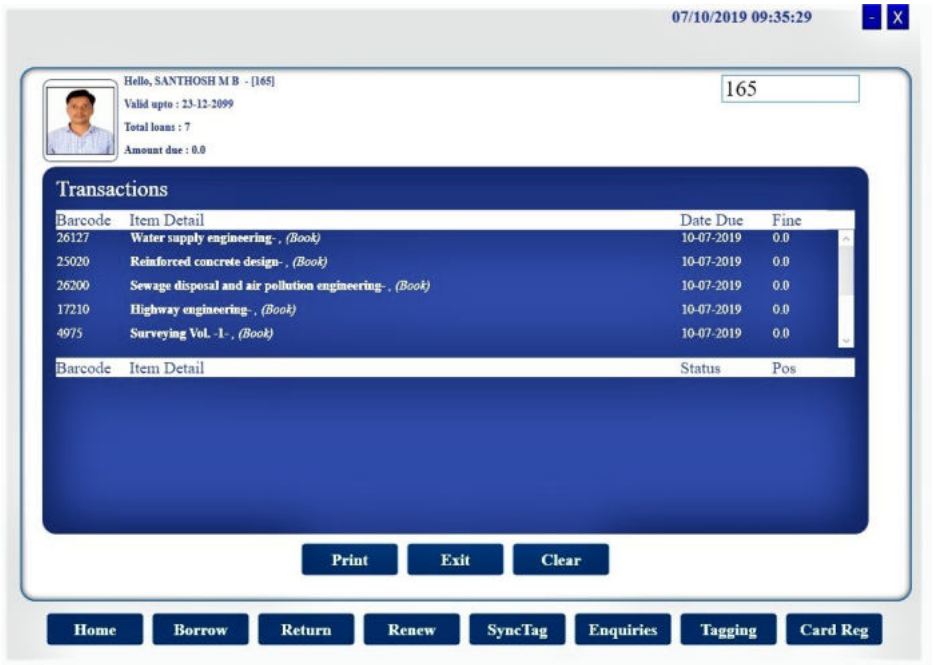

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

# Synchronize




# Enquiry

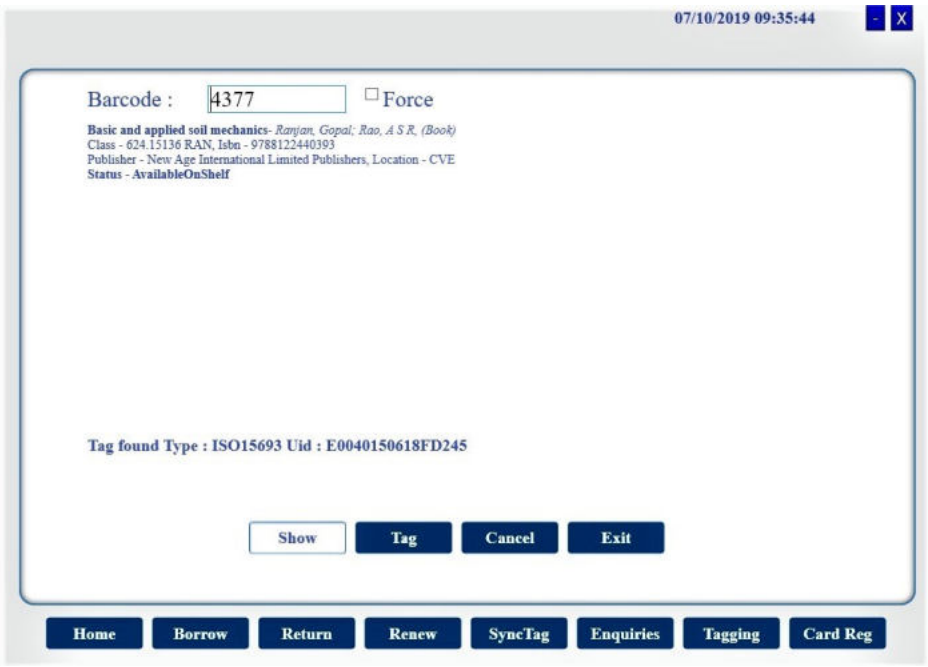




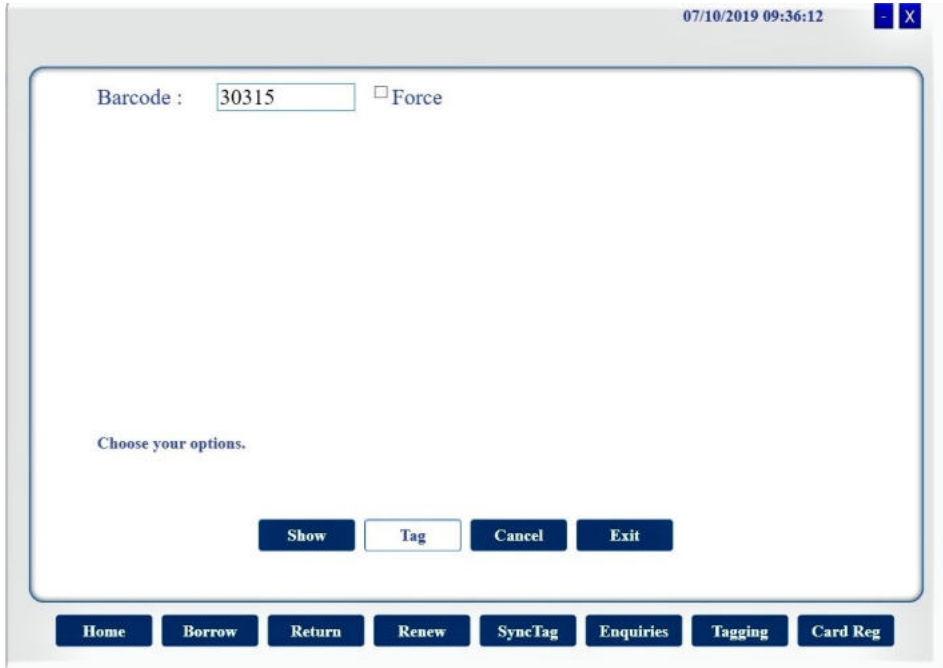

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

# Tag Show




# Tagging




REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

PRESIDENCY UNIVERSITY

Private University Estd. in Karnataka State by Act No. 41 of 2013