

Smartdoc Solution

What is Smartdoc?

Smartdoc is an innovative certificate embedded with a tamper proof chip. The digital chip contains the information about the recipient's details, the organization's details and the digitally encrypted signature of the certificate issuing authority.

Why Smartdoc is required?

Smartdoc Solution will give more reliability robustness, security and foolproof functionality, which is not there in the present system of issuance of Degree certificates to University students. This solution uses Passive RFID Tag High frequency (13.56 MHz) technology and is used at the time of graduation from the University to issue tamper proof Smart DEGREE to the Students.

Features of Asset Management System

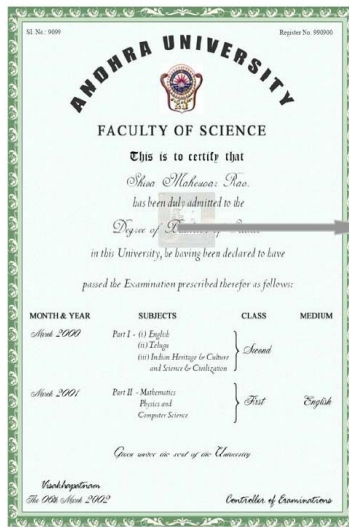
The RFID based Smart Certificate Solution incorporates the following features:

1) RFID Tag embedded Smart Certificate: A RFID tag is embedded between the two layers of the Degree Hard Copy, thus ensuring a secure packaging to avoid any tampering of the Certificate. The human readable data content is provided on the Hard Copy in English.

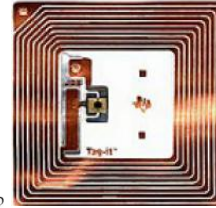
2) RFID Tags/ RFID Readers: Passive HF RFID tags will be used for tagging Degree Certificates due to their wide usage in applications related to document tracking, smart ticketing and library management. These have reasonably good read/write range and available in various form factors. The tags proposed are embedded into the certificate so that the same cannot be removed until the certificate is not physically destroyed. The certificate therefore has the capability of storing the unique biometric details of the student along with basic Student Information.

Student information writing or reading from RFID tags affixed to Degrees will be performed using Fixed RFID desktop reader. The memory of the RFID Tag in the proposed solution is 4Kilobytes.

3) Biometric Capture and Storage Infrastructure: This module is responsible to capture the biometric details of the candidate at the time of admission into the University. The fingerprint details of the candidate are captured and stored in the database. At the time of personalization, the same is digitally signed and written on to the RFID Tag along with other Student Information.



Embedded RFID Tag with Chip



Student & University Authenticity Hardware Reader

Benefits of Smartdoc

- As the credentials of the certification can be verified securely, tampering is impossible.
- Impersonation of verification process is also ruled out.
- It will be a work to be reckoned towards Appreciation for issuing Authorities, besides easy verification process.
- Implicit added value for the certification and a measure against the so called defame of the certifying institution.
- This effort will act as a measuring yardstick between Right Talent and Copy cats.
- This effort can be rated as a direct contribution to the country's reputation globally and values based education system.
- All higher valued certifications in terms of complexity, efforts to achieve and social contribution shall be made mandatory to be smart certification by relevant Authorities.
- 99% of all malpractices can be eliminated in all domains with this technology Application.