University Smart Cards

The University Smart Card is an intelligent, programmable, credit card-sized computer with the potential to increase convenience, efficiency and security of a university and its non-university partners.

Modular Corp provides the technology for smart card services as well as effective and specialised training to ensure that university staff are smart card confident and job-ready in their respective areas. Modular Corp also proposes and coordinates strategic partnerships that make it possible for a university to collaborate with other institutions, such as banks, clinics and merchants for value-added services to their staff and students. In-built security features protect data stored on a card, so a university smart card that carries academic, personal, banking, health and merchant applications, for example, allows only the cardholder to conduct financial transactions while the contained medical information is exclusively available to authorised medical personnel.

Clients

- Universiti Putra Malaysia
- Universiti Sains Malaysia
- Universiti Utara Malaysia
- Universiti Teknologi Mara
- Universiti Islam Antarabangsa
- Universiti Pendidikan Sultan Idris
- Multimedia University
THE CARD

As a true smart card, the University Smart Card is:

Multipurpose: One of the most exciting features of a smart card is the technology that allows it to perform many different functions at once. Each of these functions has its own set of inbuilt tamper-proof access safeguards to keep data secure and private.

Portable: Smart cards are the shape and size of the average identity or student card. The ‘brain’ is actually a thin microprocessor embedded in a small section of the card itself.

Updateable: As on a computer, information on the smart card can always be updated, changed or erased. New applications can be added to smart cards at any stage.

Efficient: Smart card transactions are completed very quickly. Among the direct benefits to the university would be the cost-saving – resulting from the cutting down of administrative time and paperwork – as well as a significant reduction in transaction errors.

Personal: The face of the smart card can carry a design, which conforms to the university’s identity and carries the university logo. According to university specifications, it can also be imprinted with the student’s name, a scanned photo, student number, or any other necessary information.

THE SERVICES

Access: Keycard to campus housing (students), offices (staff), computer and science labs, academic buildings and parking areas.

Personal data: Stored and updateable name, address and contact information, identity card number, next of kin information and medical records (such as blood type, allergies, etc.)

Student Information: Student records, matriculation, courses taken, grade point average, class attendance, disciplinary record, academic standing, foreign student information, library privileges, school facility reservations, financial standing and scholarship information.

Financial Transactions: Payment of tuition fees, receipt of funds or scholarship money, payment at university bookstore, payment at canteen, e-purse for on-campus purchases, payment/loyalty points/student discounts with select merchants.

RFID ENHANCED LIBRARY AUTOMATION SYSTEM

The RFID Enhanced Library Automation System (RELAS) provides an enhancement to any existing library management system by replacing barcodes with RFID (radio frequency identification) labels.

The RELAS RFID system ensures 100% data accuracy and revolutionizes the traditional library means of circulating library items such as Books, Audio and Visual Tapes, CDs and DVDs.

All the library items will be tagged with RFID tags; allowing any existing library management system to process the information written into each tag. This is done seamlessly. Customization will usually be required to cater completely to each library’s existing process flow and operational requirements.

SECURITY

Physical Security: Keycard access is determined by the University, limiting the buildings and hours accessible to each individual. For example, housing access is limited to students residing there and lab access may be restricted to students except at scheduled times and when authorised staff is present. University smart cards also carry life-saving medical information in case of illness or accident.

Card Security: All data is contained on the smart card itself and can only be accessed or modified by authorized Card Acceptance Devices (CAD) which reset each time a new smart card is inserted. The smart card’s storage capacity allows for very specific verification safeguards, such as finger scan algorithms, digital signatures, PIN and encryption algorithms and the collective data is so individual and complex it makes smart cards nearly impossible to duplicate.

Specific information is only available to specific individuals. For example, only the university bursar can access scholarship funds and only authorised medical personnel can access health information.