

INVENTORY OF PRODUCTIVITY ENHANCING PROGRAMS/TECHNOLOGIES

TITLE: ELECTRONIC SCHOOL MANAGEMENT SYSTEM (e.SMS)

Region: Region X Northern Mindanao

Sector: Education/Academe

Sub-Sector: Information and Communications Technology (ICT)

Description:

The Information and Communications Technology Center (ICTC) of the Mindanao State University – Iligan Institute of Technology (MSU-IIT) in Iligan City, Philippines has developed an innovative computer-based solution for tertiary schools that integrates key activities from admission, course scheduling, registration/enrollment, assessment, billing, cashiering, and student records management. It is a client-server system which makes use of open-source software on its server side, thus making its implementation very affordable even for small tertiary schools. This system, called **e.SMS** (*electronic School Management System*), has been used in MSU-IIT since 2001.

With *Linux* as the server operating system and *PostgreSQL* as the database engine, the **e.SMS** does not require buying expensive proprietary operating system and database software, saving the school hundreds of thousands of pesos. These open-source software provide very good implementation flexibility, functionality, and security while contributing to make the school compliant with Intellectual Property Rights (IPR) regulations. Furthermore, being SQL compliant, it is easy to implement web-based (Intranet/Internet) functions such as on-line course query during enrollment and student information portal access (optional application which is also available).

The following are the descriptions of the modules and functions:

Admission Module – enables qualified users (usually the admission officer) to enter permanent data of students.

Academic Curricula Module – allows qualified users (e.g. Registrar personnel) to enter description of academic programs and subjects or courses.

Pre-registration Module – facilitates listing of subject offerings and their corresponding schedules, class size limits, room assignments and faculty assigned. Block scheduling is also allowed or provided. Qualified users are the registrar or academic office clerks.

Registration Module - consists of three sub-modules: Advising, Subject Controlling, and Assessment.

- The Advising sub-module allows the faculty adviser to admit new and enroll returning students into a degree program .
- The subject control sub-module enables the user to enlist/control students into subjects or courses he will be taking for the current term/semester.
- The assessment sub-module is used by the assessor to finalize assessment of fees payable by the student. After which, the assessor prints the Official Certificate of Registration (CoR) of the student.

Cashiering Module – enables the Cashier to accept payment of the student based on assessed fees. The cashier may also check the assessment for correctness. Official receipt for payment received will also be printed.

Grading Module – enables the printing of grading sheets per subject which will be filled-in by the faculty. It will also accept entry of grades by a qualified user.

Records Management / Queries and Reports Module – generates various reports needed by academic units, registrar's office, management, and government entities like CHED and DBM.

- ☞ Pre-registration Data: Subjects/Course Offerings and Block Schedules/Subjects
- ☞ Registration: Class List, Student List, NSTP Roster, Faculty Teaching Load, Teaching Load Summary, etc.
- Student Records: Evaluation Record, Transcript of Records, GPA Status, Dean's List, etc.
 - ☞ Enrollment Statistics

Cashiering & Financial Reports Module – capture all payments through the Cashier's Office and generates all cashiering related reports and student billings.

- ☞ Receipt Printing and Payment Data Capture
- ☞ Cashier's Report Per Official Receipt Booklet
- ☞ Report of Collections for a Defined Period
- ☞ Summary of Collections
- ☞ Student Accounts and Billing
- ☞ Income Summary Report for a Defined Period

Utilities and Administrative Modules – allows the assigned administrator to administer or manage the system from a client PC.

Developed by: The MSU-IIT ICT Center
MSU-Iligan Institute of Technology
A. Bonifacio Avenue, Iligan City, Philippines

System Requirements: (Client-Server System)

Server: Server-grade PC (at least P4 or Xeon Processor, 1 GB ECC DRAM, SCSI Hard Disks) with installed Linux as Server Operating System, PostgreSQL as the DBMS, and SAMBA as the Application Server.

Client: Any reliable PC (at least Pentium III, 128 MB RAM) with installed Linux and Windows Emulator (Wine) or Microsoft (TM) Windows '98/2000/Me/XP Operating System and LAN connection to Server.

For Inquiries, Contact:

DR. EMMANUEL M. LAGARE	WILFREDO A. DIMAMAY
Executive Director	Director, Computer Facilities & Support Services
MSU-IIT ICT Center	MSU-IIT ICT Center
Tel No. +6363 – 221 4071	Tel No. +6363 – 221 4071
Fax No.+6363 – 221 4056	Fax No.+6363 – 221 4056
Email: eml@tinago.msuiit.edu.ph	Email: cc-wad@sulat.msuiit.edu.ph