



وزارة التربية
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Open Source Student Management Systems

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Ministry of Education and Higher Education

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Motivation

- Student Management System is a technical detail
 - Offers a lot even at strategic level
 - Caring of small details prepares to face important challenges
- ***Open Source Student Management System***



Open Source

- Open Source Project
 - Solution to a Community Need
 - Software and Documents Accessed Freely
 - Encourage Collaboration
- Communities' Needs Cover a Large Spectrum
 - Including and particularly in higher education and research

Open Source


- Examples
 - OS: Linux, Open Solaris, ...
 - Web: Apache, ...
 - DBMS: MySQL, Postgress, ...
 - CMS: Drupal, Joumla, ...
 - Security: Openssl
 - Imaging: OpenDX, MAP3D, gsview, ...
 - Scientific: Scirun, Scilab, ns, ...
 - Education: Moodle, ...
 - ...

Student Management System


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- Is not an exception in OpenSource
- Some existing FOS for SMS or SIS:

– OSIS  <http://uclouvain.github.io/osis>

– Fedena  <https://projectfedena.org/>

– FenixEdu  <https://confluence.fenixedu.org/display/ACADEMIC/Welcome>

– EduTrac SIS  <https://www.edutracsis.com>

– ...

Example FenixEdu



Academic

PAGE TREE

- Installation
- Getting Started
- **Degrees**
- Courses
- Architecture

Dashboard / Welcome

Degrees

Created by André Nunes, last modified on Oct 08, 2014

- Create Degree
- Edit a Degree
- Remove a Degree
- Curricular Plans
 - Create Curricular Plan
 - Managing Curricular Plans
 - Managing Curricular Plans on Scientific Council
 - View
 - Edit
 - Delete
 - Group
 - Manage Curricular Plans on Bologna Portal
 - Change Structure (Groups)
 - Order Groups
 - Define Rules
 - New Rule
 - Rules Composition
 - Create Unit
 - Approve Curricular Plan on Scientific Council
 - Create Degree Unit in the Organizational on Administrator
 - Create Execution Curricula on Administrator

Example FenixEdu

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Academic

PAGE TREE

- Installation
- Getting Started
- Degrees
- Courses
- Architecture

Dashboard / Welcome

Courses

Created by André Nunes, last modified on Oct 08, 2014

- Competence Course
 - Creating Competence Courses
 - Step One: Creating the Competence Course
 - Step Two: Defining Workload
 - Step Three: Define Objectives Program and Methodology
 - Managing Competence Courses
 - Publishing Competence Courses
 - Approve Competence Courses
 - Competence Course Versions
 - Create a new version
 - Approve a competence course version
 - Propose a revision to a version
- Curricular Course
 - Create a Curricular Unit
 - Associate a Curricular Unit
 - Defining Rules
 - New Rule
 - Compose Rules
- Execution Courses
 - Creating Execution Courses
 - Editing Execution Courses
 - Edit
 - Gerir Associações Curriculares ou Separar Execução
 - Move Announcements
 - Sent Emails
 - Remove
 - Join Execution Courses
 - Add Execution Courses

Example EduTracSIS

Contents [\[hide\]](#)

1 Administrative

- 1.1 General Settings
- 1.2 Email settings
- 1.3 Cronjob Handler
- 1.4 Roles
- 1.5 Forms
- 1.6 Registration Settings
- 1.7 Calendar Settings
- 1.8 Human Resources
- 1.9 Financial
- 1.10 Academic Programs
- 1.11 Courses
- 1.12 Course Sections
- 1.13 Person Management

2 Registrar

- 2.1 Creating courses (ACRS Screen)
- 2.2 Cloning a Course
- 2.3 Creating sections
- 2.4 Canceling course sections

2.5 Transfer Credits

- 2.6 Classroom Scheduling
- 2.7 Course Registration
- 2.8 Registration Status
- 2.9 Batch Registration
- 2.10 Add / Drop / Withdrawal
- 2.11 Student Academic Credits (STAC)

3 Finance / Bursar / Student Accounts

- 3.1 Billing Tables
- 3.2 Create Bill
- 3.3 Add Payment
- 3.4 Issue Refund
- 3.5 Batch Fees

Example EduTracSIS



Person

- Create person records
- Search
- View profile
- Set role/permission
- Create application for prospective students
- Generate staff records

Student

- Manage profiles
- Search
- View academic credits
- Manage restrictions
- Graduate students
- Generate transcripts
- Assign to programme
- Assign advisor
- Assign catalog year
- Active/inactive
- Withdraw
- Drop

Staff

- Manage profiles
- Search
- Active/inactive

Example EduTracSIS

Course

- Add/manage
- Set dates
- Inactive
- Course description
- Prerequisites
- Transfer courses

Course section

- Manage
- Offering information
- Register students
- Print
- Faculty view course sections
- Export grades

Course section (module)

- Billing
- Book classroom
- Faculty view timetable
- Faculty create and grade assignments
- Faculty email students
- Manage/export gradebooks
- Export graded assignment

Example EduTracSIS



Forms

- Manage semesters
- Manage terms
- Manage academic years
- Manage departments
- Manage subject
- Manage academic degrees, majors, minors
- Manage locations
- Manage grading scale
- Manage restriction codes

Booking

- Room request
- Room booking
- List events
- List pending requests
- Check availability
- Email settings
- Display events in calendar
- View calendar

Finance

- General ledger
- Setup billing table for student account
- Search student bill
- Generate bills
- Add fees
- Add payments
- Issue refund

Example EduTracSIS

- Academic programme
- Communication
- SQL
- Human resource
- myEdu Trac
- Misc

Example EduTracSIS

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- See Installation...

Dashboard

- Dashboard
 - Dashboard
 - Snapshot Report
 - System Modules
 - Install Module
 - SMS
- Administrative
- Rule Definition (RLDE)
- Forms
- Human Resources
- SQL
- Person
- Student
- Academic Program
- Course
- Section
- Institution
- Files

Active Students
0

Active Courses
0

Active Programs
0

Students by Academic Program

System Settings

- Dashboard
- Administrative
 - Settings
 - Cronjob Handler
 - (PERM) - Permissions
 - (ROLE) - Roles
 - FTP
- Rule Definition (RLDE)
- Forms
- Human Resources
- SQL
- Person
- Student
- Academic Program
- Course
- Section
- Institution
- Files

* Indicates field is required

General Web Reg Email Email Templates SMS

* Institution Name

Enable Benchmark

* Cronjobs

* myetSIS Layout

* myetSIS Mode

* Offline Message

Sincerely,

* File Manager Driver

* Curl

* API Key

Contact Phone

Help Desk

etSIS Analytics

Mailing Address



Dashboard



Plugins ▾



Screens ▾

Type for suggestions ...



etsi

You are here 🏠 Dashboard

Semester

Semester

- 📁 Dashboard
- 📁 Administrative
- 📁 Rule Definition (RLDE)
- 📁 Forms
 - 📄 (AYR) - Academic Year
 - 📄 (SEM) - Semester
 - 📄 (TERM) - Term
 - 📄 (DEPT) - Department
 - 📄 (SUBJ) - Subject
 - 📄 (DEG) - Degree
 - 📄 (MAJR) - Major
 - 📄 (MINR) - Minor
 - 📄 (CCD) - CCD
 - 📄 (SPEC) - Specialization
 - 📄 (CIP) - CIP
 - 📄 (REST) - Restriction
 - 📄 (LOC) - Location
 - 📄 (BLDG) - Building
 - 📄 (ROOM) - Room
 - 📄 (SCH) - School

* Indicates field is required.

* Academic Year

* Start Date



* Semester Code

* End Date



* Semester

* Active



Submit



Show

10

Search:

Semester	Start Date	End Date	Status	Actions
Fall	Mon, Aug 26, 2019	Fri, Dec 13, 2019	Active	Actions ▾

Showing 1 to 1 of 1 entries

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Last >

eduTracSIS

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- Plugins
 - E.g. connectivity with Moodle
- Modules (not for free)
- SQL based

Conclusions and Comments

- Easy installation
- Possible expansion
- Care with security issues

- KPIs for quality and planning
- Data analytics

Conclusions and Comments

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- Keep with the community
 - Remain up to date
 - Broader common understanding
 - Face challenges together
 - Take and give back
- You decide a strategy
 - Join a community alone (need specialised human resources and limited resources)
 - Or as a group of institutions
 - A subcommunity is a community (with the previous advantages)
 - Trust building

Conclusions and Comments

- Open source solutions facilitate setting up a system at the national level



*I alone cannot change the world, but I
can cast a stone across the waters to
create many ripples.*

Mother Teresa

*One of the marvelous things about
community is that it enables us to
welcome and help people in a way we
couldn't as individuals*

Jean Vanier

Thank you
Merci
شكراً

<http://plus.tlqaa.org>
***[http://erasmusplus-
lebanon.org/](http://erasmusplus-lebanon.org/)***