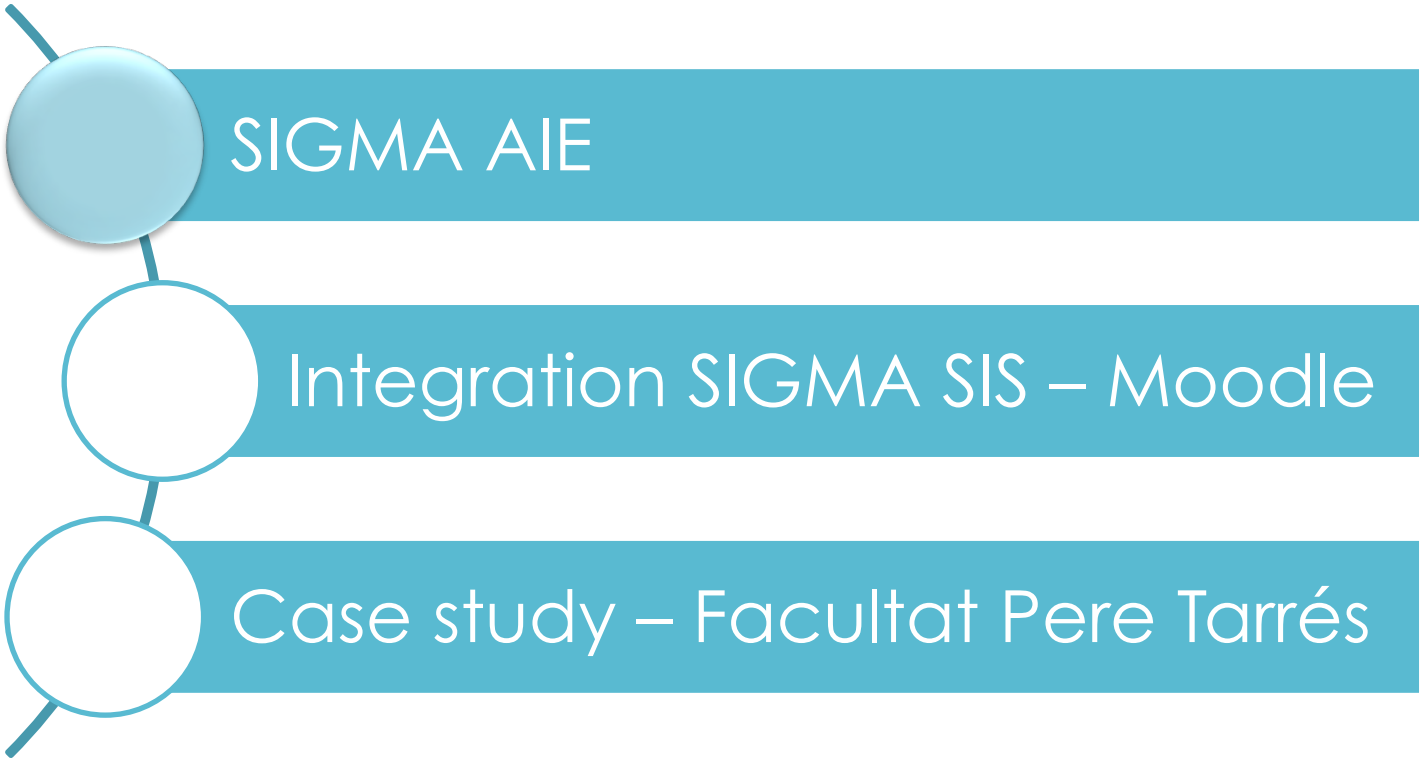
SIGMA

technological innovation for universities

Integrating a Student Information System with Moodle in a SaaS model

Joel Molins & Joan Busquiel


SIGMA AIE
Integration SIGMA SIS – Moodle
Case study – Facultat Pere Tarrés

What is SIGMA ?

SIGMA AIE is the **only non-profit consortia** for the Higher Education sector in Spain

Created in 1996, **brings together 8 Spanish public universities** to offer technological solutions for their needs of managing the **academic, teaching and research processes**

SIGMA focuses its efforts on developing and maintaining "**best of breed**" solutions

- **SIGMA SIS Student Information System**
- **SIGMA CRIS Research Information System**

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What makes us unique ?

Experience	20 + years **serving** the University Management
Technology	**Pioneers** in Web Applications for Higher Education
Innovation	Open, mobile and service-oriented **solutions**
Quality	Our **icon -** The Enrollment process more **complete, reliable and secure**
International	Leaders in **European organizations**, **consortia** and **partners** networks
Social responsibility	**Gartner** recognizes the **SIGMA Learning Center** in promoting the education sector

Who are we ?

Owners

Universitat Autònoma de Barcelona

Universidad Autónoma de Madrid

Universidad Carlos III de Madrid

Universidad de Córdoba

Universitat Pompeu Fabra Barcelona

Universidad de Valladolid

Universidad Zaragoza

upna Universidad Pública de Navarra / Nafarroako Unibertsitate Publikoa

SIGMA represents **20% of the students** in the Spanish public university system

Customers

IQS Persona Ciència Empresa – Universitat Ramon Llull

Fundació Pere Tarrés – Universitat Ramon Llull – Facultat d'Educació Social i Treball Social

ESCI Universitat Pompeu Fabra Barcelona

Escola Universitària del Maresme

Escola Superior de Ciències de la Salut

Escola Superior d'Infermeria del Mar Adscrita a la UPF – Parc de Salut MAR Barcelona

TecnoCampus Mataró-Maresme

ELISAVA Escola Superior de Disseny i Enginyeria de Barcelona

Fundació BCN Formació Professional

Vall d'Hebron Institut de Recerca VHIR

euss enginyeria

EINA

EUI-SANT PAU Centre adscrit a la UAB

European University Information Systems

Rome Student Systems and Standards Group

bologna process

EUROPEAN Higher Education Area

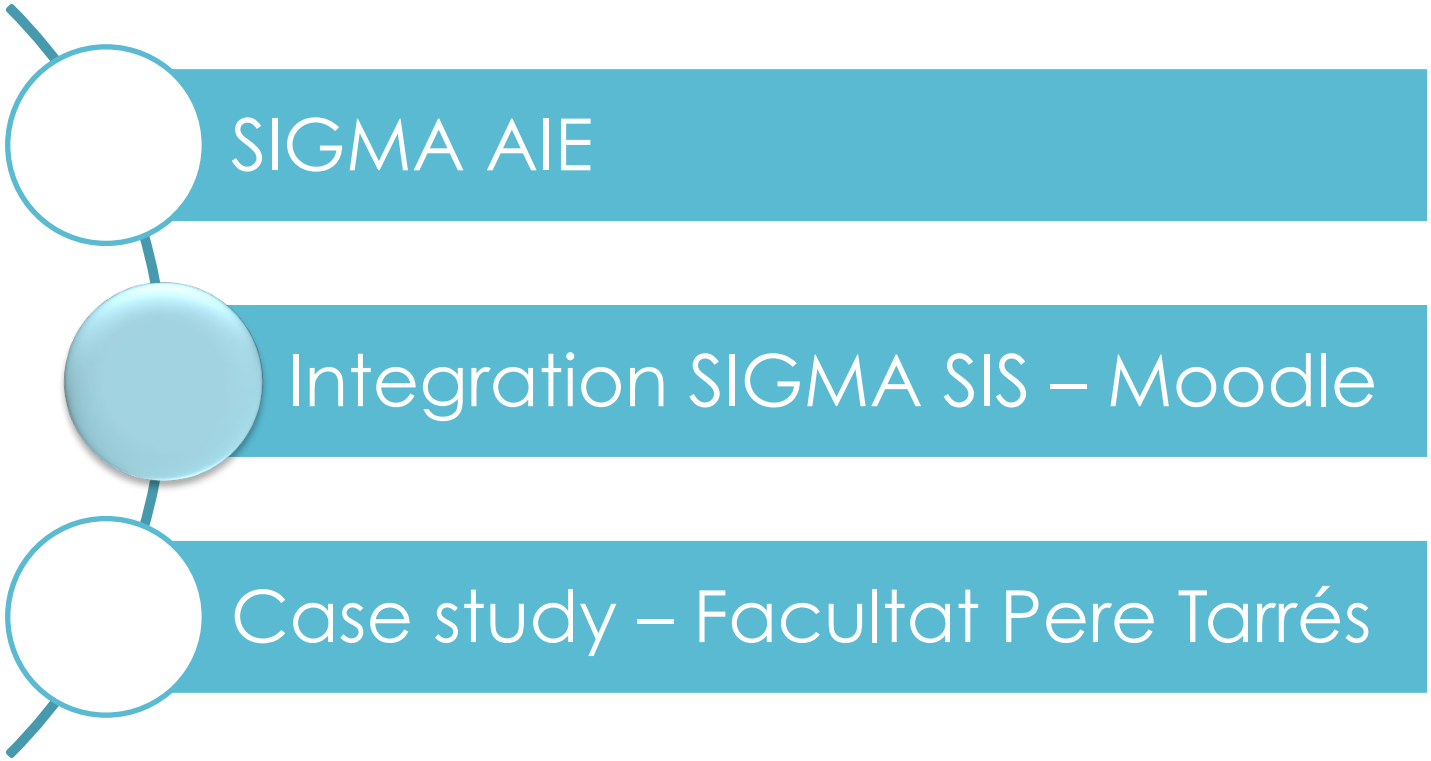
European Association EAEC Erasmus Coordinators

ERACON 2013

ESN INTERNATIONAL EXCHANGE ERASMUS STUDENT NETWORK

egracons EUROPEAN GRADE CONVERSION SYSTEM

erasmus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Levels of Integration

Two levels of integration:

- **Level I: Data Integration**
  - Creating a data interface that allows external systems to obtain a minimalist version of the SIGMA SIS data model.
  - Creating a synchronization process between the interface and learning platforms.
  - Creating a set of Web services that enable learning platforms the return of information, such as grades.

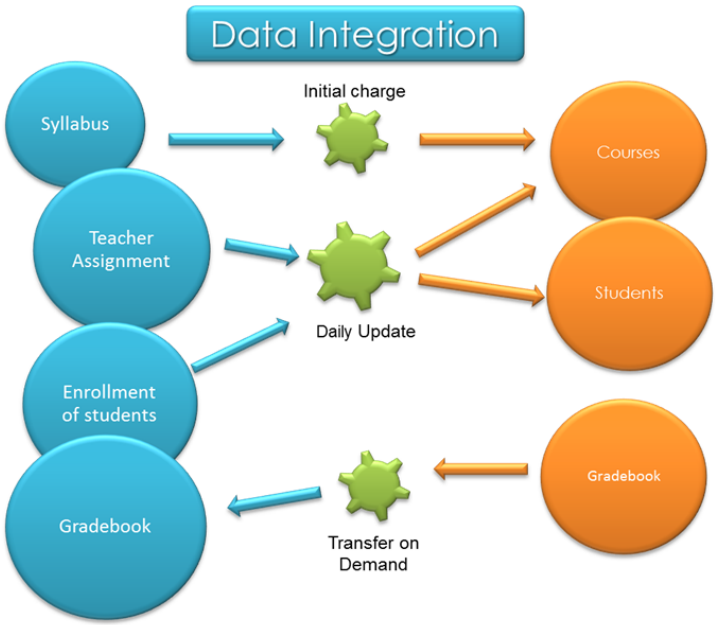
- **Level II: Functional Integration**
  - Giving access to SIGMA functionalities, directly from the learning platform.
  - Creating a delegated identification system for total transparency of this integration.
  - For frequently used modules, creating plugins on the learning platform, that allows these modules to log in at SIGMA information. For example, a lite version of the SIGMA gradebook.

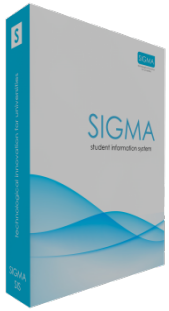
From SIGMA to Moodle

- Initial charge of the entire syllabus definitions in SIGMA, thus creating the necessary courses in e-learning platform.
- Daily load distributions of teachers in their groups, as well as the creation of new groups of enrolment.
- Enrolment and unenrolment of students to courses.

From Moodle to SIGMA

- Teachers currently put their grades in Moodle to keep the student informed of their grades in a convenient and fast way.
- One of the latest developments in SIGMA is creating a tool that allows the teacher to pass the students' grades directly to SIGMA, with just one click.





MetaGroup

- Tool that allows the teacher to group two or more of their groups in a single Moodle course. Because classroom teaching and online teaching does not always require the same groups of students.

GESTIÓN DE METAGRUPOS

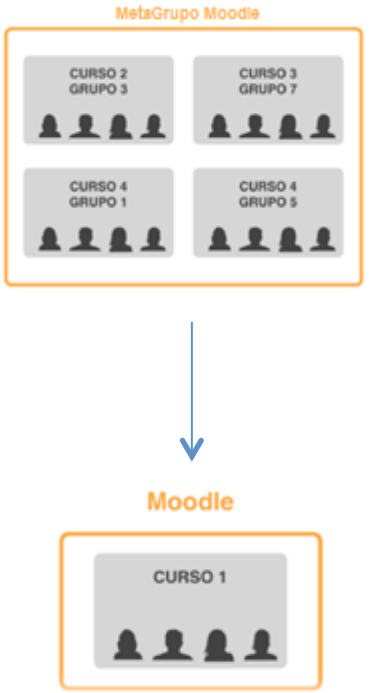
Grupos en Moodle

Asignatura: 41391 - Trabajo Fin de Máster	
☐	Grupo 1
	Grupo 2 - **Agrupado en "MetaCuso de Test"**
☐	Grupo 5
	Grupo 6 - **Agrupado en "MetaCuso de Test"**
☐	Grupo 7
Asignatura: 40362 - Comparación transcultural	
☐	Grupo 1
Asignatura: 40326 - Antropología del ritual y organización de la procreación	
	Grupo 1 - **No eres el profesor responsable de este grupo**
Asignatura: 28699 - Prácticas de Campo en Antropología Social y Cultural I	
☐	Grupo 3
Asignatura: 40368 - Proyecto de máster, trabajo de investigación	
☐	Grupo 2

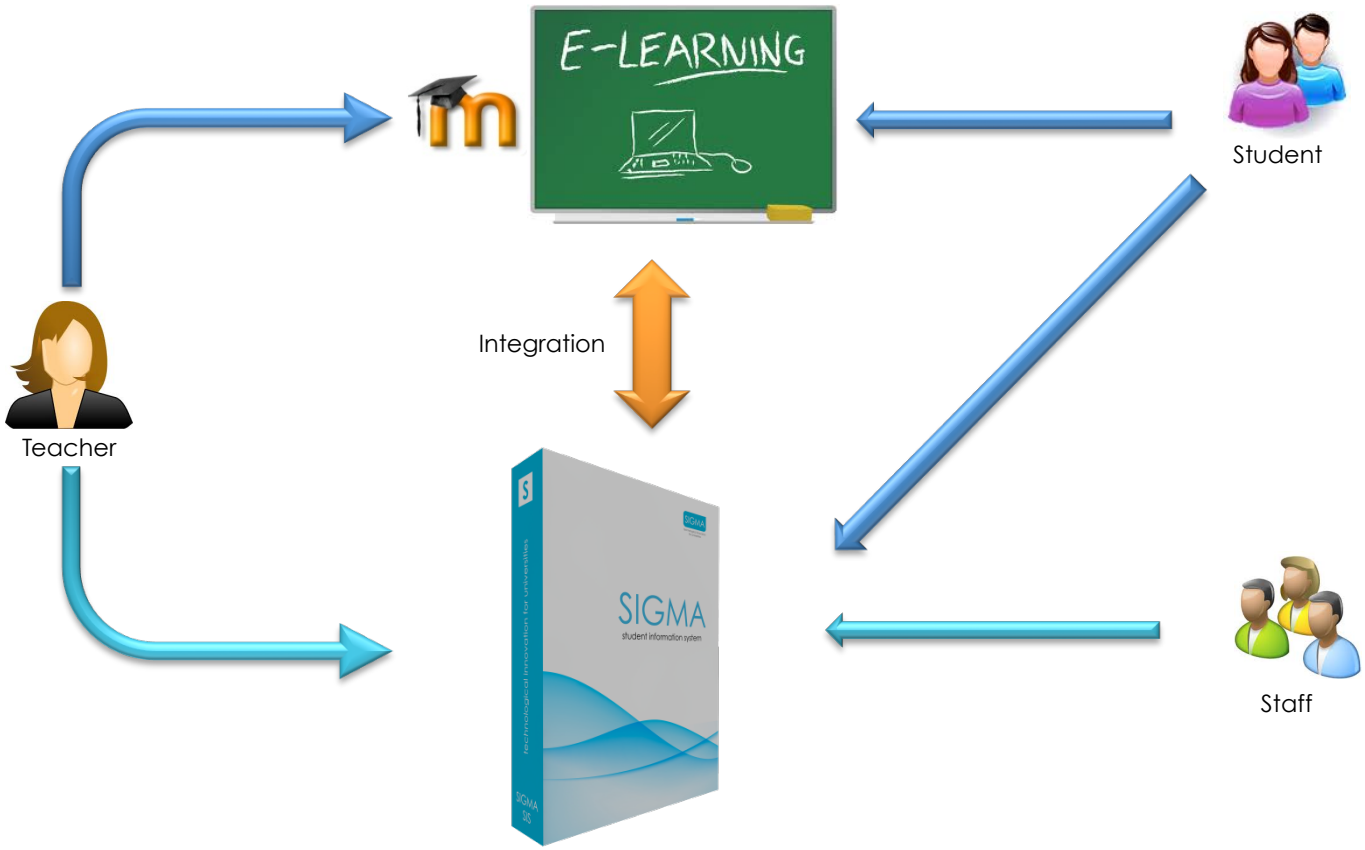
Nuevo MetaGrupo

MetaGrupos en Moodle

	Id	Nombre MetaGrupo	Integrantes
⊗	META_2008_1	MetaCruso de Test	Asignatura: 41391 - Trabajo Fin de Máster - **Grupo 2** Asignatura: 41391 - Trabajo Fin de Máster - **Grupo 3**



Functional Integration



Functional Integration - SigmaTools

Student Information System functionalities

- Check the class lists
- Check student records
- Enter final grades in SIGMA SIS
  - Transfer and calculation of grades
  - Management of alphabetic grades
  - Check grades template
- Manage records
  - Transfer of records to SIGMA SIS
  - Dates of exams reviews
  - Closing records
  - List of records

More functionalities

- Surveys
  - Fill satisfaction surveys
  - Check teacher report
  - Check subject report
- Pizarra Web
  - Sending and receiving messages from the app Pizarra

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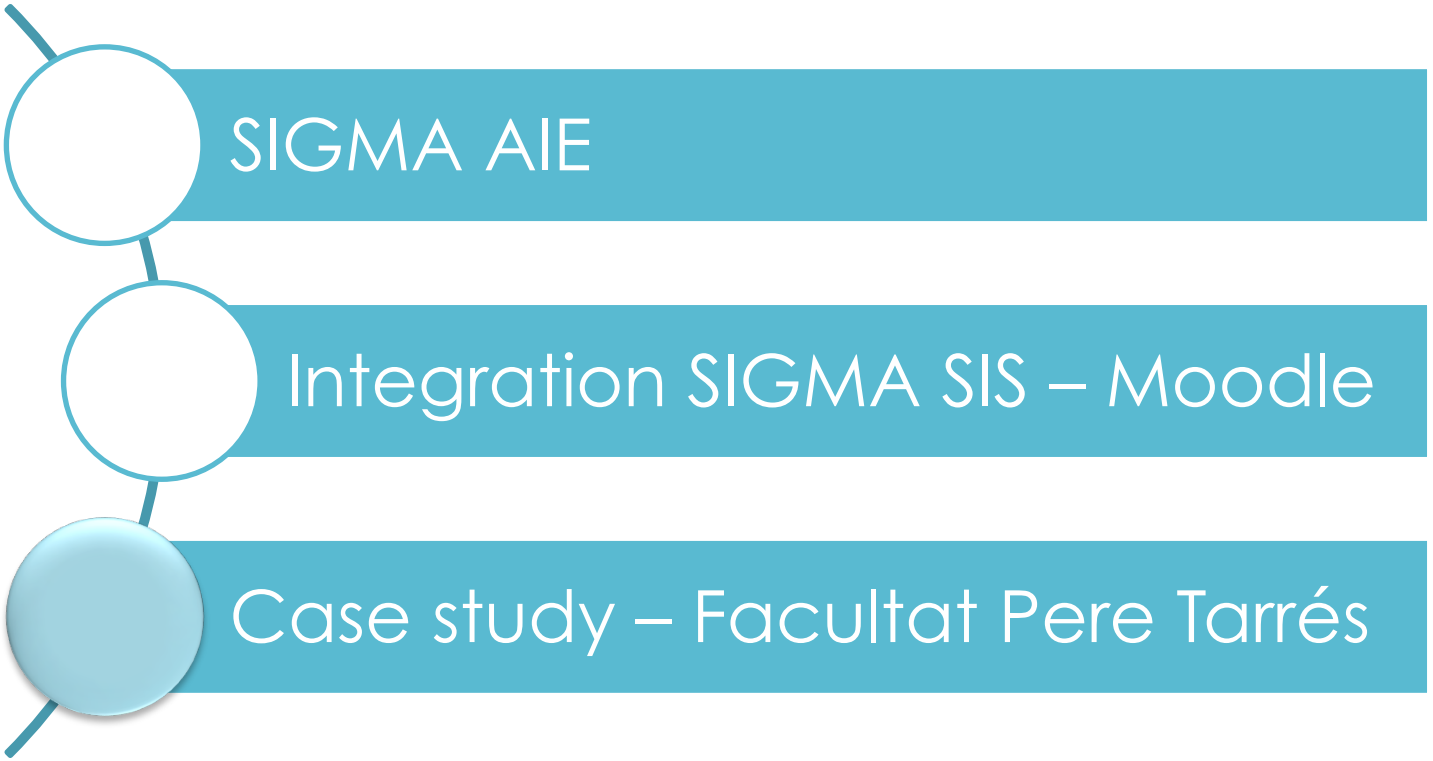
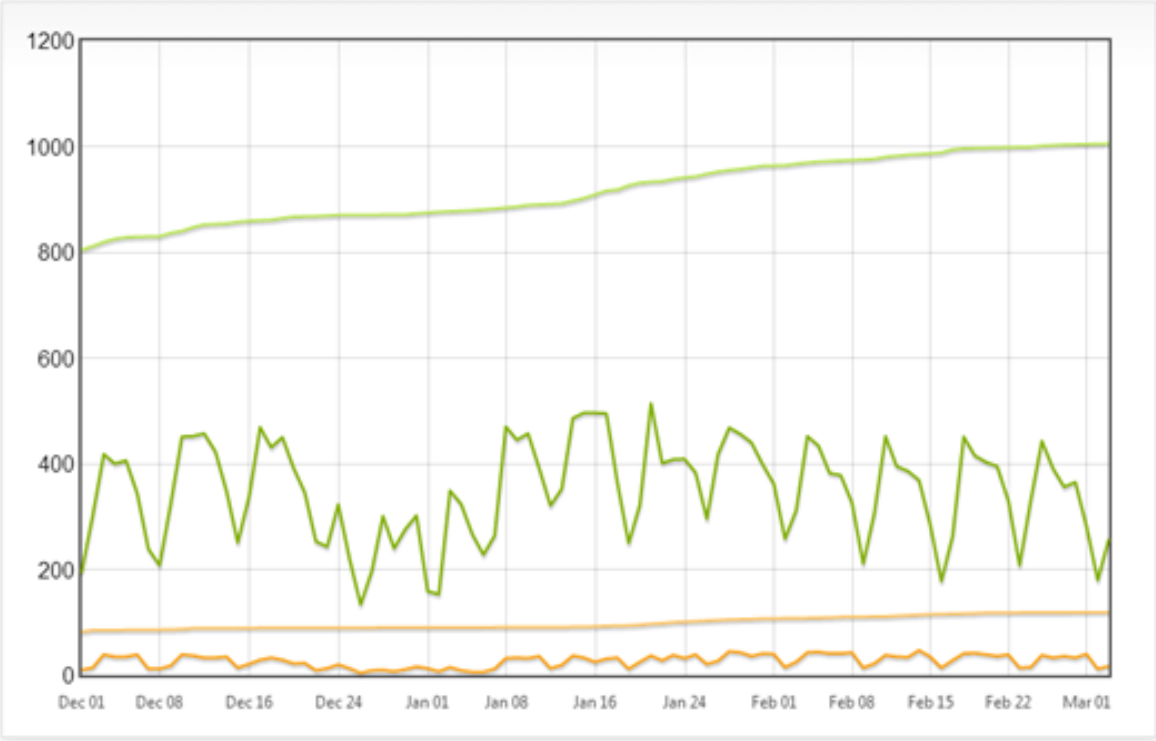


Since July 2013, the Moodle platform was opened to teachers and from September 2013, also for students. Since that day, the system has worked continuously without system failure.
During February 2014, a total of 1.122 users entered the Moodle platform from a potential of 1.493. Furthermore, an average of 426 users enter daily, some more than once, providing an average of 935 identifications every day.

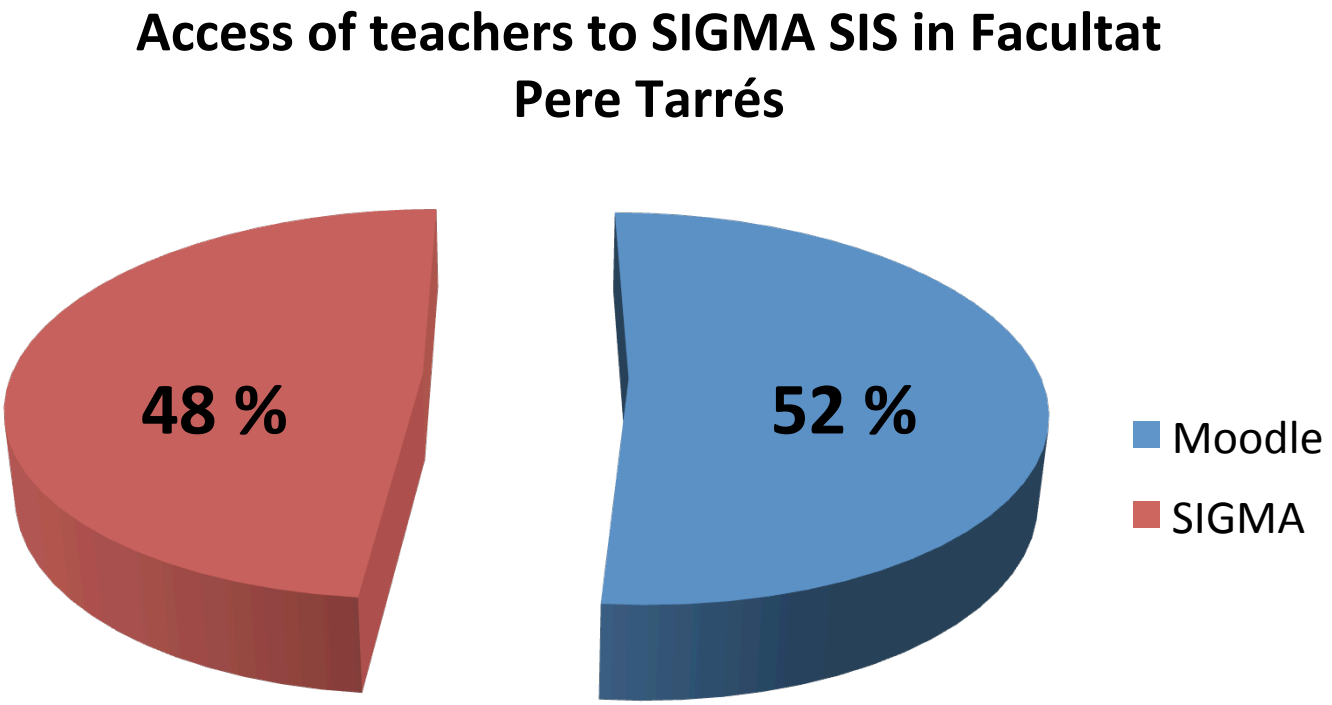
SaaS
ESTADÍSTICAS
SIGMA SaaS
04/03/2014
13:05



FUNDACIÓ PERE TARRÉS
moodle

Use of Integration

Since the beginning of the academic year, teachers of Facultat Pere Tarrés have made 52% of queries to SIGMA SIS by functional integration.
In the new schools that we are implementing, this value is 100%, because we no longer give the option for teachers to access SIGMA other than Moodle.



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Customers with Moodle Integration

Functional and data integrations

UAM UNIVERSIDAD AUTONOMA DE MADRID

upna Universidad Pública de Navarra Nafarroako Unibertsitate Publikoa

Universidad de Valladolid

ESCI upf. International Business

Escola Universitària del Maresme

Escola Superior de Ciències de la Salut

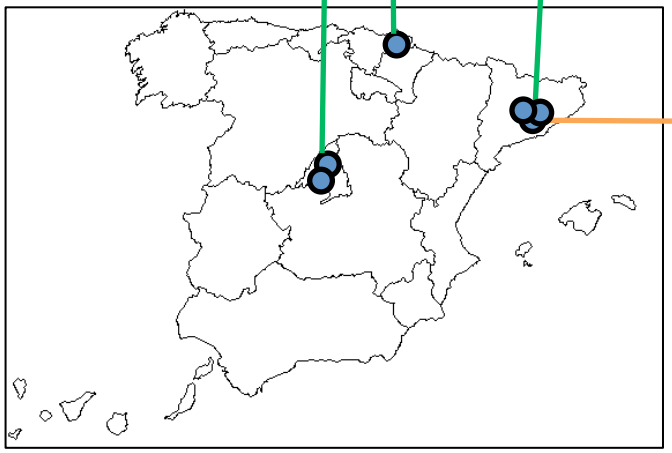
euss enginyeria

EINA

ELISAVA Escola Superior de Disseny i Enginyeria de Barcelona

Escola Superior d'Infermeria del Mar

Parc de Salut MAR Barcelona



SaaS model

Universitat Ramon Llull

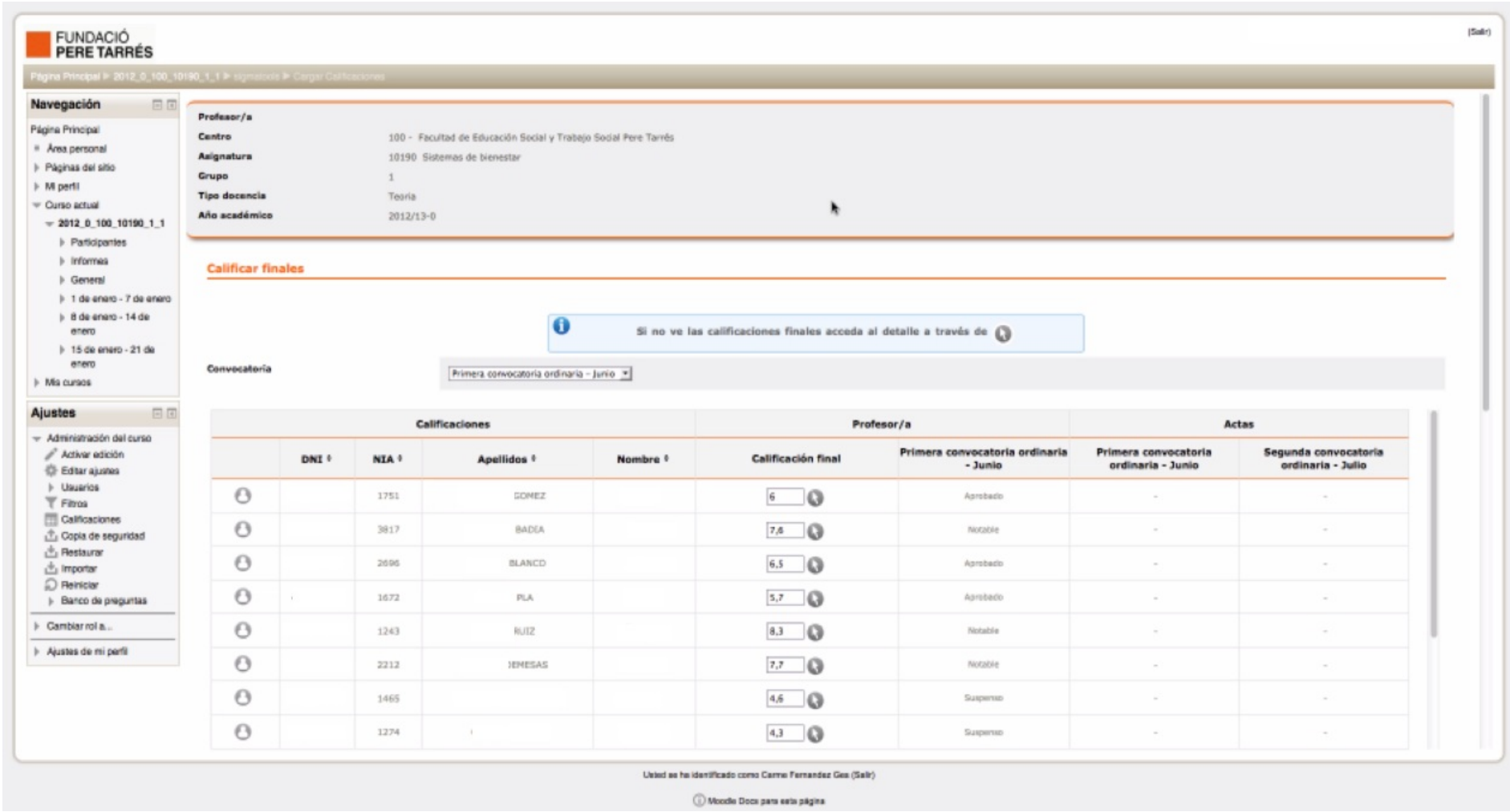
FUNDACIÓ PERE TARRÉS

Universitat Ramon Llull

FACULTAT D'EDUCACIÓ SOCIAL I TREBALL SOCIAL

HOSPITAL DE LA SANTA CREU I SANT PAU

UNIVERSITAT AUTÒNOMA DE BARCELONA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Navegación
Página Principal
Área personal
Páginas del sitio
Mi perfil
Curso actual
2012_0_100_10190_1_1
Participantes
Informes
General
1 de enero - 7 de enero
8 de enero - 14 de enero
15 de enero - 21 de enero
Mis cursos
Ajustes
Administración del curso
Activar edición
Editar ajustes
Usuarios
Filtros
Calificaciones
Copia de seguridad
Restaurar
Importar
Reiniciar
Banco de preguntas
Cambiar rol a...
Ajustes de mi perfil
Profesor/a
Centro 100 - Facultad de Educación Social y Trabajo Social Pere Tarrés
Asignatura 10190 Sistemas de bienestar
Grupo 1
Tipo docencia Teoría
Año académico 2012/13-0
Calificar finales
Si no ve las calificaciones finales acceda al detalle a través de
Convocatoria
Primera convocatoria ordinaria - Junio
Calificaciones
Profesor/a
Actas
DNI
NIA
Apellidos
Nombre
Calificación final
Primera convocatoria ordinaria - Junio
Primera convocatoria ordinaria - Junio
Segunda convocatoria ordinaria - Julio
1751 GOMEZ 6 Aprobado
3817 BADIA 7,6 Notable
2696 BLANCO 6,5 Aprobado
1672 PLA 5,7 Aprobado
1243 RUIZ 8,3 Notable
2212 REMESAS 7,7 Notable
1465 4,6 Suspenso
1274 4,3 Suspenso
Usted se ha identificado como Carme Fernandez Gea (Salir)
Moodle Docs para esta página

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www.sigmaaie.org