



akademik bilişim

2012 | 1-3 Şubat 2012  
Uşak Üniversitesi



# Sakai OAE

*Açık Akademik Ortam*

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Eskişehir Osmangazi Üniversitesi

# Sunu Planı

Bu çalışmada yükseköğrenime özelleşmiş ve yaygın kullanıma sahip açık kaynak kodlu işbirliği ve öğrenme ortamı Sakai uygulamasının akademik işbirliğine dayalı olarak yeni vizyon doğrultusunda tasarlanan esnek ve modüler modeli “Sakai OAE (Open Academic Environment - Açık Akademik Ortam) hakkında bilgi verilecektir.



Sakai Hakkında

Sakai  
CLE  
Collaboration and Learning Environment

Sakai CLE

Sakai  
OAE  
Open Academic Environment

Sakai OAE



Sonuç ve Öneriler



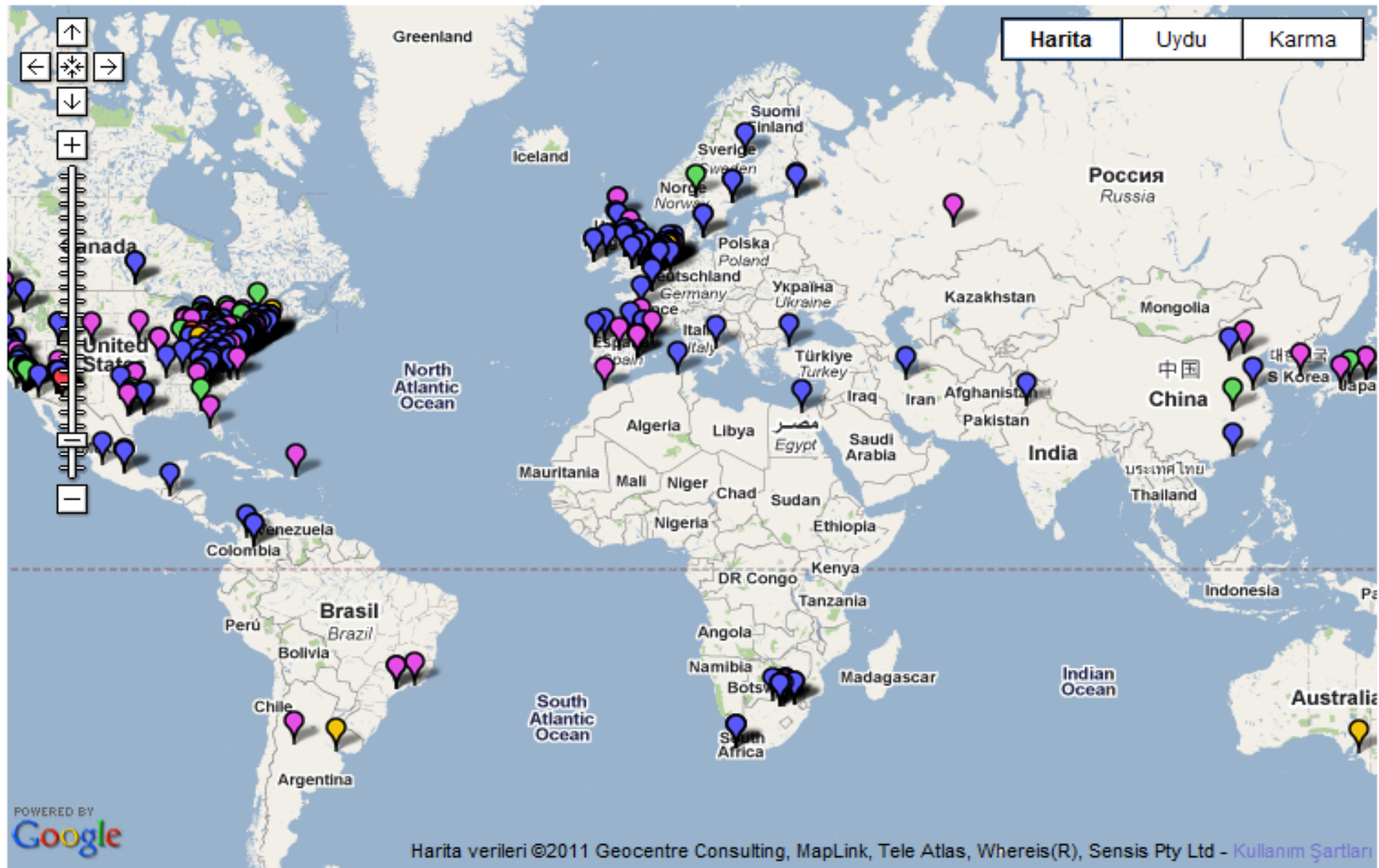
# Sakai Nedir?

- Sakai, daha çok yüksek öğrenime özelleşmiş ve dünya üzerinde yaygın kullanıma sahip açık kaynak kodlu bir öğrenme yönetim sistemidir.
- Sakai, dünya çapında 350'in üzerinde eğitim kurumunun kullandığı 1000'nin üzerinde kişinin desteklediği her bir sistem için 200'den 200.000 kadar değişen kullanıcı sayısı ile, ücretsiz ve eğitimi destekleyen birçok özelliği ile web tabanlı, platform bağımsız bir uygulamadır.



# Institutions Using Sakai

Show All |  Production |  Pilots |  Partners: Academic |  Partners: Commercial Affiliates |  Community Servers



# Sakai'nin Tarihsel Gelişim Süreci

- Sakai aslen “Sakai Projesi” olarak Mellon Vakfı tarafından hibe ile desteklenen bir proje olarak hayata geçti (Seevrance, 2007). İlk sürümleri destekleyen kurumların hali hazırda kullandıkları araçlara dayanmakla birlikte temelini Michigan Üniversitesi'nin ders yönetim sistemi “CHEF” oluşturmaktadır. Sakai ismi “CHEF” isminde esin kaynağı olan japon televizyon programı “Iron Chef” in meşhur Japon şefi Hiroyuki Sakai'den esinlenilerek verilmiştir (Wikipedia, 2009 ).
- 2004 yılının şubat ayında ilgili kurumların girişimiyle düzenlenen toplantıya;
  - **Massachusetts Teknoloji Enstitüsü (MIT):** Stellar ,
  - **Stanford Üniversitesi:** CourseWork ,
  - **Michigan Üniversitesi:** CTools, (CourseTools,CHEF uygulama çatısını temel alan)
  - **Indiana Üniversitesi:** Oncourse CL ,
  - **Valencia Polytechnic Üniversitesi:** CourseTools
  - **Open Knowledge Initiative (OKI)** uPortal uygulamasıyla her bir kurum kendi geliştirmiş olduğu ders yönetim sistemiyle katkıda bulundu.
- Sakai'nin ilk sürümünün herkes açık hale gelmesiyle birlikte kurucu 5 üniversite diğer kurumları "Sakai Partners Program" adını verdikleri birlikteliğe davet ettiler. Böylece ortakların projeyi mali yönden desteklemeleri ve kod gönderiminde bulunmaları sağlanmış olundu.



A community *of educators*  
**collaborating** *to create*  
 open software *that advances*  
 teaching, learning *and* research. **Join us.**



[Learn More](#) ▶

## Community

Organizations and individuals have come together to create, adopt, share and support Sakai.

## Explore the Sakai CLE

Over 350 educational organizations use Sakai as a learning management system, research collaboration system and ePortfolio solution.



[Learn More...](#)

[Try Sakai CLE](#) ▶

## Introducing Sakai OAE

The new Sakai platform re-imagines technology-supported teaching learning and research, creating an open academic environment.



[Learn More...](#)

[Try Sakai OAE](#) ▶

## News

- Sakai In the News: Rutgers Plans to move from the CLE to the OAE
- Free Sakai training workshop offered by rSmart
- Unicon "Test Drive Sakai" 2.7 with Kaltura Integration
- One Hundred and Forty Days in ...
- Dec 9 @ 5pm: Sakai Teaching and Learning (T&L) Group Quarterly Update
- Sakai In the News: "Open Source Software more Suitable for Oxford"
- Sakai In the News: Pepperdine U is moving to Sakai

# Sakai

- Collaboration and Learning Environment
- Öğrenme Yönetim Sistemi olarak kullanılan sürümü

Sakai CLE

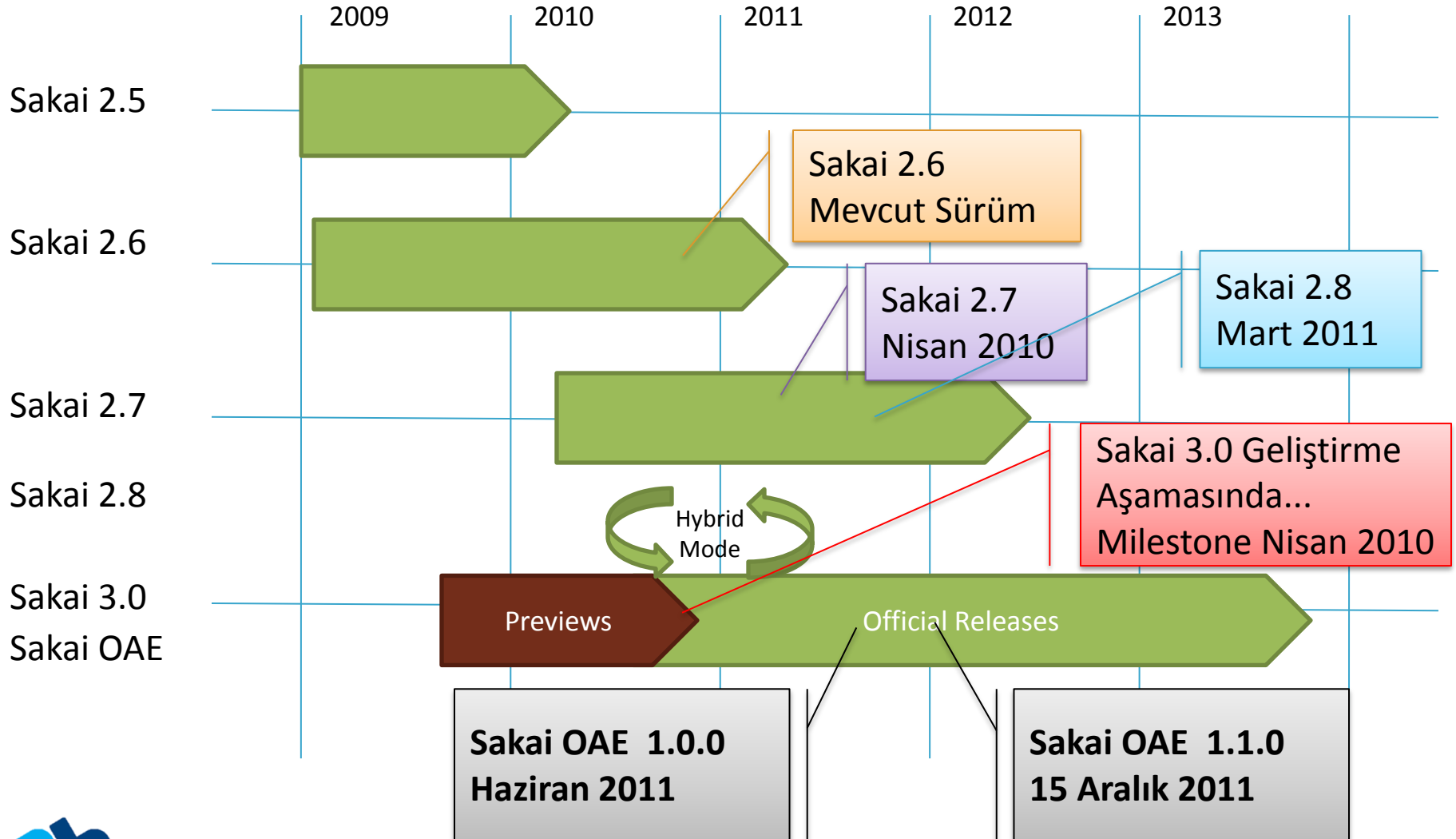


- Open Academic Environment
- Akademik işbirliği için yeni vizyonu

Sakai OAE



# Sakai Yol Haritası



# Sakai CLE

## (Collaboration and Learning Environment)

- Massachusetts Teknoloji Enstitüsü, Stanford Üniversitesi, Michigan Üniversitesi, Indiana Üniversitesi ve Valencia Polytechnic Üniversitesi önderliğin de oluşturulan “SakaiFoundation” organizasyon yapısı altında akademik, ticari ve bireysel katılımlarla geliştirilen *işbirliği ve öğrenme ortamıdır*.
  - Collaboration and Learning Environment (CLE),
  - Course Management Systems (CMS),
  - Learning Management Systems (LMS),
  - Virtual Learning Environments (VLE).



# Sakai Araçları

## My Workspace

MY EVENTS  
Calendar  
Announcements

MY TOOLS  
Resources  
Blogger  
Wiki  
News  
Web Content  
Search

MY ACCOUNT  
Profile  
Membership  
Preferences  
Account  
Site Setup

## Courses

COURSE RESOURCES  
Syllabus  
Calendar  
Announcements  
Resources  
Lessons  
Blogger  
Site Roster  
Email Archive

COURSE TOOLS  
Assignments  
Tests & Quizzes  
Drop Box  
Gradebook  
Post It  
Wiki  
Discussion Forums  
Messages  
Forums  
Chat Room

RELATED LINKS  
RSS News  
Web Content  
Search

SITE MANAGEMENT  
Site Editor  
Section Info  
Site Statistics

## Portfolios

PORTFOLIO RESOURCES  
Calendar  
Announcements  
Resources  
Glossary  
Site Roster  
Email Archive

PORTFOLIO TOOLS  
Portfolios  
Wizards  
Matrices  
Assignments  
Goal Management  
Data Points

RELATED LINKS  
News  
Web Content  
Search

SITE MANAGEMENT  
Site Editor  
Evaluations  
Reports  
Forms  
Portfolio Templates  
Portfolio Layouts  
Styles

## Projects

PROJECT RESOURCES  
Calendar  
Announcements  
Blogger  
Site Roster  
Email Archive

COLLABORATION TOOLS  
Discussion Forums  
Messages  
Forums  
Chat Room  
Resources  
Wiki

RELATED LINKS  
News  
Web Content  
Search

SITE MANAGEMENT  
Site Editor  
Site Statistics

## Admin

Home  
MOTD  
Search  
Users  
Sites  
Realms  
Aliases  
Resources  
Site Setup  
Site Archive  
Memory  
On-Line  
Job Scheduler  
Super User  
User Membership  
Customizer  
rSmart Support  
Help



# Sakai OAE

## (Open Academic Environment)

- Sistemler ve kullanıcılar arasında birlikte çalışabilirlik, işbirliği ve paylaşımı teşvik eden; eğitim kurumları, öğrenciler, öğretmenler ve araştırmacıların ihtiyaçlarına göre yeniden tasarlanan açık akademik bir ortamdır.
- Çalışmalarına Sakai 3 olarak başlanan bünyesinde akademik işbirliği için yeni bir anlayış barındıran, öğrenme ortamının sosyal araçlarla donatıldığı, hizmet mimarisine dayalı bir ortamdır. Bu yeni anlayış Sakai platformunu teknoloji destekli öğretim, öğrenme ve araştırma bağlamında yeniden kurgulamakta ve açık bir akademik ortam yaratmayı hedeflemektedir.



## Sakai OAE

### (Open Academic Environment)

Geçirgen olması ortamın içinde bulunduğu kurumsal kaynaklar ve bu kaynakların araçlarının yanında kurum dışında içerik ile de ilişkili olabilmesini ifade etmektedir.

Günümüzde var olan insanların iletişimini, etkileşimini, işbirliğini, çalışmasını ve doğal olarak öğrenme sürecini yeniden şekillendiren sosyal ağları akademik ihtiyaçlar doğrultusunda yapısına dâhil etmektedir.

Mevcut öğrenme yönetim ortamlarından farklı olarak kurumların belirlediği yapılar yerine kişinin kendisinin şekillendirebileceği kişisel bir ortam sunmaktadır.

Karma yaklaşımla içerik ve bağlantılarınızı özgürce işleyebileceğiniz bir ortam sunmaktadır. Bu yeni yaklaşımla bir veya birden fazla farklı veri kaynağını kullanarak (mash-up) bütünlük içerikler, uygulamalar ve bağlantılar oluşturabilirsiniz.



Geçirgen  
(Permeable)



Sosyal  
(Social)



Kişisel  
(Personal)



Karma  
(Remixable)



Teşekkürler

Soru-Cevap

Sakai

<http://sakaiproject.org>



## • Yasin ÖZARSLAN

- Eskişehir Osmangazi Üniversitesi
- Bilgisayar ve Öğretim Teknolojileri Eğitimi Bölümü
- ozarslan@gmail.com
- ozarslan@ogu.edu.tr

İletişim



Choose a category ▾

## Welcome to The Sakai Open Academic Environment, a new system that embraces a new vision for academic collaboration



### Permeable

Form various types of groups to work with people in your way

### Personal

Add pages to your space to broadcast your views or experiences, gather options and build your portfolio

### Social

Enter profile information so Sakai can help you connect with the most appropriate people to you

### Remixable

Create Sakai Doc and author any experience you can think of to share and/or collaborate with others on it

### All categories



sombrero\_hst\_321  
5.jpg

galaxy

Used in 1 place



Library

Used in 3 places

<http://www...>

[rudbeckia.jpg](#)

### Recent activity



Some recent activity will appear here once people collaborate

Example:



**Hiroyuki Sakai**  
Uploaded a new version of:



**My Recipes**  
Used in 4 places

**sakai** People Courses & Sites Search John Doe Help Sign Out

Site title

**Home**  
**John Doe**  
 Changed this page on Dec 19, 2008 (view change)

**My Sakai**  
 My Sakai  
 Inbox (1)  
 Connections (3)  
 Profile  
 Preferences

Search site

Edit Page | Share | Print | More  
 Page History  
 About  
 Copyrights  
 Move  
 Copy  
 Delete

**Add a New...**  
 Blank Page  
 Page from Template  
 Dashboard Page  
 Site Tool  
 Another page  
 John's cool page  
 Sitemap

**Recent Activity**  
 Another page  
 Changed 4 minutes ago  
 Untitled  
 Added yesterday  
 Untitled  
 Changed Dec 30, 2008

**Edit Sidebar**

**Site Management**  
 Site Settings  
 Members  
 Groups  
 Appearance

**My Course & Sites**  
 Edit Create a Site  
 Business Statistics  
 Zanny's House of Rock  
 MKT430 International Marketing (Spring 2009)  
 Chess Club  
 ECN422 Capstone Economics (Spring 2009)

**My Contacts**  
 View & Edit Contacts Find People  
 3 Contact Requests  
 Denzel Williams  
 Florencia Coretez  
 Victoriyanica Pritulski  
 Adrian Jackson  
 Thomas Craig  
 Alexavier Curtis

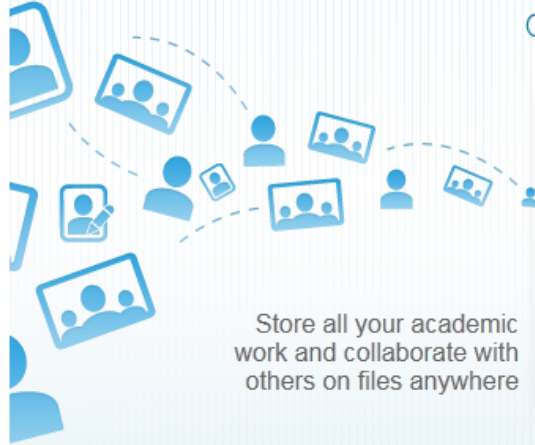
**My Tools**  
 Add & Edit Tools  
 Assignments  
 Gradebook  
 Resources  
 Calendar  
 Post 'Em  
 Blog

**My Profile**  
 Edit Profile Preview Profile  
**John Doe**  
 Mathematics  
 Chat Status: Available

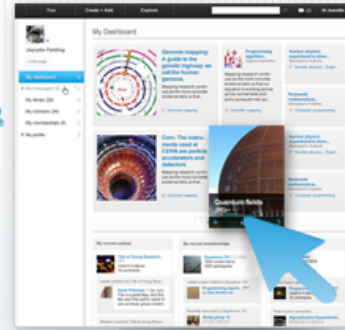


# Sakai OAE

Open Academic Environment



Store all your academic work and collaborate with others on files anywhere



Build a project site while creating work with others all in the same place

Create course materials once and re-use it later

## Create a new account

First Name:

User Name:  ✖

Last Name:

Password:

Email:

Re-type password:

SOLDIERS ~~sements~~



stop spam.  
read books.

Create account

My Sakai Profile People Courses and Sites Search Sam Peck Home Logout

**Sam Peck**  
Change photo Edit Profile

Search for tools, people & sites Search

Set your profile Change layout

### My courses and project sites

Edit list  
Remove  
Add

- Managing Customer Relationships and Creating Customer Loyalty
- Strategic Issues in Corporate Finance
- Asset Management
- Finance Management
- Legal Finance in Corporate Resolutions

Edit Create a site

### My contacts

Daniel Williams Victoria Pribuda Adrian Jackson Thomas Craig Alexander Curie Florencia Correa

View and edit contacts Find people

### Tools

- Assignments
- Gradebook
- Resourcelist
- Calendar
- Post-It
- Blog

Add and edit Tools

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Top



## Sakai OAE Özelleştirilebilir Kullanıcı Çalışma Sayfası

You Create + Add Explore [Search] (2) Nicolaas Matthijs

**Math 113**  
0 Documents, 1 Participants

Message [Icon] [Settings]

+ Add a new area

▸ Syllabus

▼ Lectures

**Lecture 01**

Lecture 02

Lecture 03

▸ Problem sets

▼ Course website

About

Prospective students

Contact us

Organization Notes

Lecture Template


Edit Page Add page Page Revisions

## Week 01: Real and Hyperreal Numbers

### Lecture 01: Analytic Geometry

Date: Monday 10th January  
Location: Building 600, Lecture Hall 209

Unit I: Lec 1 | MIT Calculus Revisited: Single ...



00:00 / 37:42

YouTube



## John's New Site

Search this site Search

Save Cancel Auto saved 3 min 23 sec ago. Text Editor HTML Preview

Save & Close Save as Template Save as Template Arial 10 Bold Italic Underline Text Color Background Color Spelling Insert More Layout

### Untitled

#### Numquam eius modi tempora incidunt ut labore et dolore

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur dolorem velit. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur dolorem velit. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur.

Video Settings Remove

Page location: Site title / Some page / Untitled Move...

Save Cancel

## John's New Site

Search this site Search

### Site Management « Back to Site

- Basic Settings Members Permissions Appearance Edit Sidebar

#### Appearance

Site logo: None Change

Site style: Original Sakai Style Sakai Blue Sakai Green

2 Column Lime Green

Style preview - Original Sakai Style: Your Logo John's New Site Search this site Search Page Title Header Image caption This is a link to another page Input field text Change Footer - page created by John Doe Another option Option

Save Cancel



## Inbox

Compose a New...

- Inbox**
- Messages
- Announcements
- Chats (1)
- Invitations (1)
- Sent
- Trash

## Inbox

Delete

	From	Subject	Type	Date Arrived
<input type="checkbox"/>	Joseph Ringer	Hi!	Message	Jan 22, 2009 10:25 PM
<input type="checkbox"/>	Kelly Swift	<a href="#">Scheduled system maintenance</a>	Announcement	Jan 21, 2009 10:25 PM
<input type="checkbox"/>	Michelle Williams	<a href="#">Are you online?</a>	Chat	Jan 20, 2009 10:25 PM
<input type="checkbox"/>	Tony Grant	<a href="#">New Contact Request</a>	Invitation	Jan 19, 2009 10:25 PM

## Inbox

Compose a New...

[« Back to Inbox](#)

- Inbox**
- Messages
- Announcements
- Chats (1)
- Invitations (1)
- Sent
- Trash

 **Kelly Swift**  
Sent this announcement on Jan 22, 2009 10:25 PM

### Scheduled system maintenance

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, tota ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam volupta aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius m.

[Reply](#) | [Delete](#)

### Subject

Re: Scheduled system maintenance

### Body

[Reply](#) | [Cancel](#)

## Inbox

Compose a New...

[« Back to Inbox](#)

- Inbox**
- Messages
- Announcements
- Chats (1)
- Invitations (1)
- Sent
- Trash

 **Kelly Swift**  
Sent this announcement on Jan 22, 2009 10:25 PM

[Block / Report](#)

### Scheduled system maintenance

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius m.

[Reply](#) | [Delete](#)





Clay Fenlason

My Dashboard

▶ My Messages

▶ My Profile

My Library (5)

My Memberships (1)

My Contacts (1)

## My Library



Sort by: Newest

**T-Square Instructor Manual.pdf** PDF DOCUMENTby [Stephen Rehberg](#) | Changed less than a minute ago

Used in 3 places

**1 Day Pass** PDF DOCUMENTby [Nicolaas Matthijs](#) | Changed less than a minute ago

1 Day Pass for the gym

Used in 2 places

Cambridge • Sakai • pass

**FeatureOverview.pdf** PDF DOCUMENTby [You](#) | Changed about 6 hours ago

Functionality overview of OAE

Used in 2 places

oae docs

**Participants** DOCUMENTby [You](#) | Changed about 8 hours ago

Used in 3 places

**Library** DOCUMENTby [You](#) | Changed about 8 hours ago

Used in 3 places



# John's New Site

Add a New...

### Navigation Menu

- Home
- Some page
- Another page
- John's cool page
- Site map

### Site Tools

- Discussion Forum
- Calendar

### Recent Activity

- Another page  
Changed 4 minutes ago
- Untitled  
Added yesterday
- Untitled  
Changed Dec 30, 2008

### Site Management

- Basic Settings
- Members
- Permissions
- Appearance
- Edit Sidebar

## Home

Edit Page | Print Page | More

John Doe  
Changed this page on Dec 19, 2008 (view changes)

### Numquam eius modi tempora incidunt ut labore et dolore

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam d ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architectoidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur.

### Voluptatem accusantium doloremque laudantium

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius m.

### Discussion

John Doe posted this topic on Dec 19, 2008 at 12:01PM

0 replies

#### Read chapter 3.2 in the text and discuss how the above paragraph relates to it.

Make sure to post you response here by Friday at 12 AM! Your responses are required and will be graded. Failure to post a reply will result in 0 points for this assignment. Late response will not be accepted.

Reply | Edit | Delete

## Search

All Content & Media People Courses & Sites

  Search

Found: 599 results matching your search for cool

### Content & Media

View all 372 content & media items >

#### Advice for doing well in this class

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod cool ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo cons...

Page | GBS221 Business Statistics (Spring 2009)

#### Does anyone know where I can find the graph that describes how to do a SWOT analysis?

Lorem ipsum dolor sit cool, consectetur adipiscing elit, sed diam nonummy nibh euismod trndidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo cons...

Forum Post | MKT430 International Marketing (Spring 2009)

#### Addendum to Syllabus

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod trndidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad cool veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo c...

Page | GBS221 Business Statistics (Spring 2009)










#### Learning by doing

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod cool ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo cons...

Page | GBS221 Business Statistics (Spring 2009)

### People

View all 127 people >

- |   |   |   |
|---|---|---|
|  <b>John Doe</b><br>Mathematics<br><a href="#">Add to Contacts</a>   <a href="#">Message</a> |  <b>John Doe</b><br>Mathematics<br><a href="#">Add to Contacts</a>   <a href="#">Message</a> |  <b>John Doe</b><br>Mathematics<br><a href="#">Add to Contacts</a>   <a href="#">Message</a> |
|  <b>John Doe</b><br>Mathematics<br><a href="#">Add to Contacts</a>   <a href="#">Message</a> |  <b>John Doe</b><br>Mathematics<br><a href="#">Add to Contacts</a>   <a href="#">Message</a> |  <b>John Doe</b><br>Mathematics<br><a href="#">Add to Contacts</a>   <a href="#">Message</a> |
|  <b>John Doe</b><br>Mathematics<br><a href="#">Add to Contacts</a>   <a href="#">Message</a> |  <b>John Doe</b><br>Mathematics<br><a href="#">Add to Contacts</a>   <a href="#">Message</a> |  <b>John Doe</b><br>Mathematics<br><a href="#">Add to Contacts</a>   <a href="#">Message</a> |

### Courses & Sites

View all 100 courses & sites >

#### GBS221 Business Statistics (Spring 2009)

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