IT Technologies in TSMU (brief overview)

Andriy V. Semenets
PhD, Professor Assistant
Medical Informatics Department

https://sites.google.com/a/tdmu.edu.ua/med-informatics/
https://plus.google.com/u/0/b/105928281998211737833/105928281998211737833/about
Most important components of the TSMU IT-infrastructure

1. Cloud services Google Apps For Education and Microsoft Office 365
2. University web-site and user homepage (http://www.tdmu.edu.ua)
3. Learning management system Moodle (http://moodle.tdmu.edu.ua/ and dl.tdmu.edu.ua/)
4. Video-repository (http://videotube.tdmu.edu.ua/)
5. Digital (text) repository (http://repository.tdmu.edu.ua/)
6. Scientific journals publishing system (http://ojs.tdmu.edu.ua/)
7. Scientific conferences publishing system (http://conference.tdmu.edu.ua/)
1. Cloud technologies in TSMU

“Cloud Computing” means storing and accessing data and programs over the Internet instead of your computer's hard drive. The cloud is just a metaphor for the Internet.

Cloud computing means that instead of all the computer hardware and software you're using sitting on your desktop, or somewhere inside your company's network, it's provided for you as a service by another company and accessed over the Internet, usually in a completely seamless way.
Cloud technologies benefits

- **No more carrying around devices.** You don’t need to worry about losing the device, breaking the CD, etc...

- **Easy access!** Lesson plans, labs, grades, notes, PowerPoint slides – just about anything digital that you use is easily uploaded and accessed anytime.

- **Stability:** Cloud computing is now to the point of being a very stable technology that you can rely on.

- **Security:** Your data, content, information, images – anything you store in the cloud usually requires authentication (ID and password, for example) – so it is not easily accessible by anyone.

- **Shareability:** Working on an instructional assignment with other students? You can share some or all of your files that you have stored in the cloud. No more obtaining an extra thumb drive. You just need to send a link to the file(s) destination.

- And much more!
Cloud services access requirements

- Mandatory required:
  - Internet connection (mobile preferred)
  - Computer (desktop, laptop, netbook, tablet, smartphone)
  - Installed web-browser application.

- Recommended:
  - Cloud service distributor (for the best access)
  - Skills of the effective internet and web-application usage.
How it look like in reality:
Google Datacenter

Our Council Bluffs data center provides over 115,000 square feet of space. We make the best out of every inch, so you can use services like Search and YouTube in the most efficient way possible.
Most popular cloud services in the world

TSMU students have chance to access those services free and favourable accordingly special academic licenses!
Cloud platform Google Apps For Education

Some key services:

- Electronic mail Gmail (with integrated Hangouts audio-video messaging service);
- Google Calendar;
- Google Drive and Google Docs – allow to create and edit web-based documents, spreadsheets, and presentations. Users can store documents online and access them from any computer (unlimited for students!);
- Google Sites – easy-to-create websites for your teams.
- Google Photo (unlimited for students!)
- Social network Google+
Cloud platform Google Apps For Education
Cloud platform Google Apps For Education
Cloud platform
Microsoft Office 365

Common services:

- Email (MS Exchange), Calendar, video-conferences (MS Lync);
- User file storage with MS OneDrive
- Abilities to instant creating and editing all MS Office documents (texts, spreadsheets, presentations)
- Digital Dashboard;
- Web-site development with SharePoint;

In general, list service is very similar to existing in the Google Apps For Education
Cloud platform
Microsoft Office 365
How students can receive access to the TSMU cloud services

1. In the Dean`s Office receive information about your personal Gmail account under TSMU domain (login and password);

2. First time authorize (log-in) and confirm service usage conditions at: https://accounts.google.com/ServiceLogin

3. Enjoy (:)

4. To access the Microsoft Office 365 service an additional request (via dean`s office) is required
General user account authorization

https://accounts.google.com/ServiceLogin

One account. All of Google.

Sign in with your Google Account

Password

Sign in

Stay signed in

Need help?

Create an account

One Google Account for everything Google
The TSMU provided GMail mailbox

Inbox
Starred
Important
Sent Mail
Drafts (9)
Categories
Circles
mis elex
tdmu-admin
tdmu-distance
tmp-students (127)
tdmu-science (0)
More ▼

Mail management tools

Email search box

TSMU Gmail mailbox

User menu panel

Incoming mails

Hangouts panel
The TSMU provided GMail mailbox

Switching among: mailbox, contacts (personal + domain) and tasks

Mailbox user interface and settings customization menu

1 - switch to "contacts"
2 - type search criteria (ex. name)
3 - click "search"
4 - contacts that was found in the TSMU domain

How to search contacts in TSMU domain
The TSMU provided GMail mailbox

With this menu user can switch among currently logged-in user accounts or previously stored accounts.

Google Apps item selection menu (scroll to have more application: GA For Education)
The TSMU provided GDrive
The TSMU provided Google+ accounts
2. University web-site
http://www.tdmu.edu.ua/en/

Site authorization and user homepage access link!

Links to the TSMU pages in social networks

Main navigation menu
Announcement and important messages panels
2. University web-site
http://www.tdmu.edu.ua/en/
2. Login and user homepage

https://sites.google.com/a/tdmu.edu.ua/en_login/

Personal Cabinet

Links to access different TSMU services
3. Learning Management System Moodle

http://moodle.tdmu.edu.ua/

- Moodle is a free and open-source software learning management system. Developed on pedagogical principles, Moodle is used for blended learning, distance education, flipped classroom and other e-learning projects in schools, universities, workplaces and other sectors.

- With customizable management features, it is used to create private websites with online courses for educators and trainers to achieve learning goals.

- Moodle (acronym for modular object-oriented dynamic learning environment) allows for extending and tailoring learning environments using community sourced plugins.
3. Learning Management System Moodle

http://moodle.tdmu.edu.ua/
3. Learning Management System Moodle

http://moodle.tdmu.edu.ua/

The TSMU LMS Moodle user homepage

Courses on which you are assigned in (by site administrator)

Information technologies in pharmacy (2 course - pharm - eng - external educ.)

Информационные технологии в фармации (2 курс - фарм - рус - заочн.ф.об.)

Higher mathematics (1 course - farm - eng - external educ.)
3. Learning Management System Moodle

http://moodle.tdmu.edu.ua/

Course header contain common materials:
- syllabus,
- schedules,
- lecture presentations (for the self-education),
- materials for the self-preparing to lectures,
- rework self-appointment scheduler,
- and many other stuff
3. Learning Management System Moodle

http://moodle.tdmu.edu.ua/

Sample content of the Topic (Class):
- methodical instructions,
- matherial for the self-preparing to a practical classes,
- quiz to check results of the self-preparing,
- and other...
3. Learning Management System Moodle
http://moodle.tdmu.edu.ua/

Medical Informatics (2 course - med - eng)

Rewiew of the built-in matherials in a frame

Special toolbar for the PDF-document management
3. Learning Management System Moodle

http://moodle.tdmu.edu.ua/

Medical Informatics (2 course - med - eng)

Dashboard ➤ Institute of Morphology ➤ Кафедра медичної інформатики (Department of Medical Informatics)


Confirmation

This quiz has a time limit and is limited to 1 attempt(s). You are about to start a new attempt. Do you wish to proceed?

Start attempt  Cancel

Time limit: 24 mins

Attempts: 130

Preview quiz now

Start of the Quiz attempt
3. Learning Management System Moodle

http://moodle.tdmu.edu.ua/
3. Learning Management System Moodle

http://moodle.tdmu.edu.ua/

Medical Informatics (2 course - med - eng)

Biosignal analyses and processing. Medical Image analysis and processing.

Summary of attempt

<table>
<thead>
<tr>
<th>Question</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Answer saved</td>
</tr>
<tr>
<td>2</td>
<td>Answer saved</td>
</tr>
<tr>
<td>3</td>
<td>Not yet answered</td>
</tr>
<tr>
<td>4</td>
<td>Not yet answered</td>
</tr>
</tbody>
</table>

Finish attempt ...

Return to attempt

Time left 0:08:36

This attempt must be submitted by Saturday, 29 August 2015, 9:34 PM.

Submit all and finish
There are no need user registration to review videos!

http://videotube.tdmu.edu.ua/
4. The TSMU YouTube channel
https://www.youtube.com/channel/UCCwOL-NkpaJAsikOzivndQ
5. TSMU Digital (text) repository

http://repository.tdmu.edu.ua/

TSMU DSpace Repository

DSpace is a digital service that collects, preserves, and distributes digital material. Repositories are important tools for preserving an organization's legacy; they facilitate digital preservation and scholarly communication.

Communities in DSpace

Select a community to browse its collections.

Державний науковий архів
У фондах містяться документи, що були розміщені зареєстрованими користувачами

Електронний архів Видавництва "Укрмедкнига"
Фонд містить електронні матеріали, що були передані від видавництва ДВНЗ ТДМУ "Укрмедкнига"
5. TSMU Digital (text) repository
http://repository.tdmu.edu.ua/

Access to all digital text materials is absolutely FREE
5. TSMU Digital (text) repository

http://repository.tdmu.edu.ua

User self-registration is allowed
6. Scientific journals publishing system

http://ojs.tdmu.edu.ua/
6. Scientific journals publishing system

http://ojs.tdmu.edu.ua/

INTERNATIONAL JOURNAL OF MEDICINE AND MEDICAL RESEARCH

Vol 1, No 1 (2015)

Table of Contents

Internal Medicine

OXIDATIVE STRESS IN HUMAN THYROID GLAND UNDER IODINE DEFICIENCY
PDF

NODULAR GOITER: FROM HARMLESSNESS TO HAZARD DEPENDING ON COPPER AND IODINE SUBCELLULAR DISTRIBUTION

H. Falfushynska, L. Gnatyshyna, A. Shulgai, V. Shidlovski, O. Stoliar

Pediatrics

ASSOCIATION OF FAMILIAL AND ENVIRONMENTAL FACTORS WITH ASTHMA AND...
7. Scientific conferences publishing system

http://conference.tdmu.edu.ua/

Open Conference Systems (OCS) is a free Web publishing tool that will create a complete Web presence for the scholarly conference.
• Only key TSMU information services was shown above.

• Ask your teachers to get more!

Thanks for your attention!