

Technology and Higher Education in Ethiopia

Content

Ethical Considerations

Developing a Technology Plan

Information Consumption through Technology—Free Sites

Information Creation through Online Tools

App Development



Ethical Considerations

Harmony: is the process of locating the fulcrum point to balance our desire for personal success and our desire to do something for the common good.

Wisdom: the ability to use both objective and intuitive modes of knowing in order to create meaning, and in order to analyze the various expressions in which meaning is manifested.

Power: the ability of the individual and/ or community to make change in a manner that demonstrates our interconnectedness.



Developing a Technology Plan

Use the UUC Vision and Mission Statements

Draft Outcomes: Start with the end in mind

Appreciative Inquiry: Review existing technology resources

Inventory Best Internal Practices

Appreciative Inquiry: Survey what other similarly situated universities are doing

Inventory Best External Practices

Redraft Outcomes: Create Plan and Timeline



Digital Literacy: The Basics

Computer Basics

System Function	Device	System Type
Input: how information gets into computer	Keyboard	PC Mac Tablets Smart Phones
Input: how information gets into computer	Screen	Tablets (Apple IOS and Android) Mobile Devices
Input: how information gets into computer	USB Ports Micro Disk	PC Mac Some Tablets Smart Phones
Input: how information gets into computer	CD & DVD drive USB Fire-wire Thunderbolt (Mac only) Micro Disk	PC Mac
Processor: how information is manipulated	Processors RAM	PC Mac Tablets Smart Phones
Output	Screen Printer Storage Devices	PC Mac Tablets Smart Phones
Storage	CD & DVD USB Fire-Wire Thunderbolt (Mac only) the Cloud Micro disk	PC Mac
Storage	USB Micro Disk the Cloud	PC Mac Smart Phone

Software Basics

Useful Programs for Knowledge Production

Program Name	Representative Functions
Word	Word processing Desktop Publishing HTML Coding Flyers and brochures Business Cards Calendars (See Microsoft for more examples (http://office.microsoft.com/en-us/word/))
Excel	Spreadsheet Lists Invoices Calendars Budgets (See Microsoft for examples (http://office.microsoft.com/en-us/excel/))
PowerPoint	Presentation Instruction Demonstration eLearning Products See Microsoft for examples (http://office.microsoft.com/en-us/powerpoint/)
Adobe Acrobat Pro	Secure documents Collect Form Data Digital Signature Portfolios Interactive eLearning products Embed video See Adobe for examples (http://www.adobe.com/products/acrobatpro.html)
Adobe Captivate: eLearning authoring software	Interactive Quizzes Software Simulations Branching Scenarios HTML 5.5. Converter See Adobe for examples (http://www.adobe.com/products/captivate.html)
Adobe Creative Suite	Video editing Convert video to FLV format Sound Production After Effects editing Produce Flash Files Photoshop See Adobe for examples (http://success.adobe.com/en/na/sem/products/studentandteachereditions/video.html/?sdid=FXLZE&skwcid=TC 22183 adobe%20video%20suite S b 6152117902)

Google Resources

The Power of a Google Account

Google Docs | Calendar | Photos |
Web | Web Alerts

Translate | Talk | Google Scholar |
Cloud Storage

YouTube | Google Voice | Maps |
Google Earth



Social Networks as Educational Tools

Increases both teacher-student and student-student interaction in the form of web-based communication.

Helps instructors connect with their students about assignments, upcoming events, useful links, and samples of work outside of the classroom

Students can contact classmates about questions regarding class assignments or examinations as well as collaborate on assignments and group projects in an online environment

Improve language development

Improve interpersonal communication

Improve group collaboration skills



Knowledge Production Options

The Public Knowledge Project

The Public Knowledge Project is dedicated to improving the scholarly and public quality of research. It operates through a partnership among the [Faculty of Education at the University of British Columbia](#), the [Simon Fraser University Library](#), the [School of Education at Stanford University](#), and the [Canadian Centre for Studies in Publishing at Simon Fraser University](#).

Strengthening African Research Culture and Capacities

With over 250 African journals using PKP software to list their contents in the [African Journals Online](#) program, PKP will be conducting Online Scholarly Publishing workshops in 6-8 African research libraries on the feasibility of moving journal to online management and full-text publishing as a way to strengthen local research culture and knowledge building.



Learning Management Systems



Moodle is a Course Management System (CMS), also known as a Learning Management System (LMS) or a Virtual Learning Environment (VLE). It is a Free web application that educators can use to create effective online learning sites.

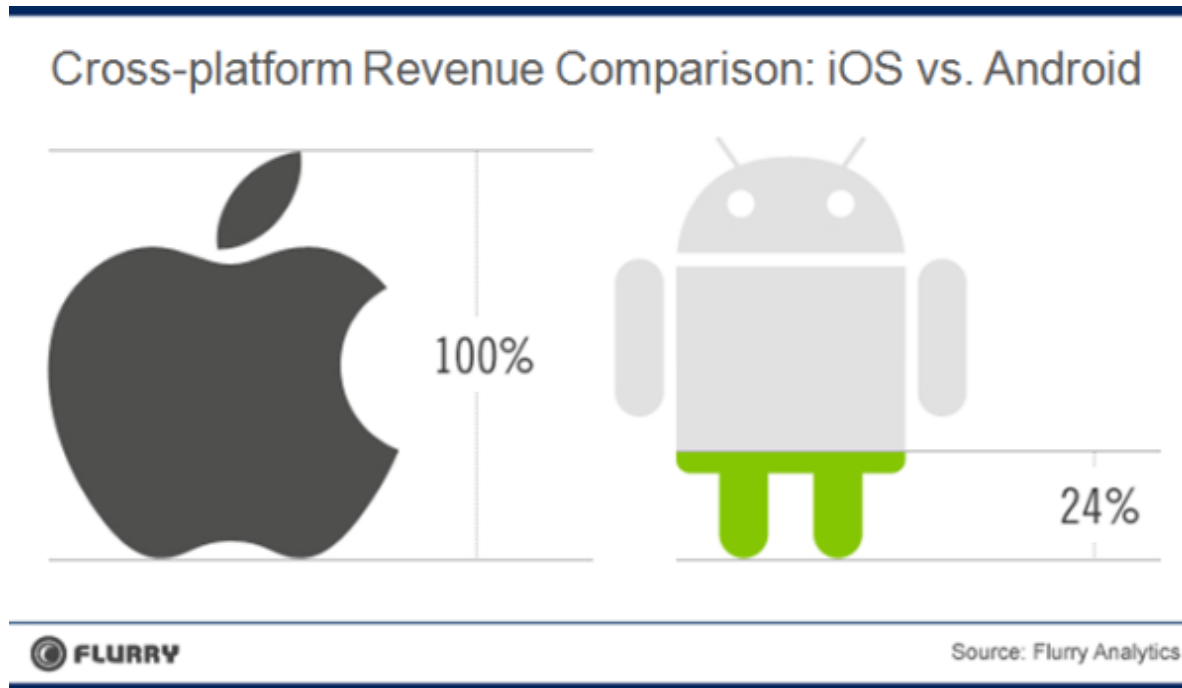
Moodle.org is our community site where Moodle is made and discussed. Please use the menus to explore and join in!



Collaboration and Learning Environment for Education
free to use, free to develop, freedom for education

Sakai is a free and open source product that is built and maintained by the Sakai community. Sakai's development model is called "Community Source" because many of the developers creating Sakai are drawn from the "community" of organizations that have adopted and are using Sakai.

Knowledge Production: App Development



“Anecdotally, developers consistently tell us that they make more money on iOS, about three to four times as much. To be sure, we pulled a sample of in-app purchase data from a set of top apps with versions on both iOS and Android, comprising of several million daily active users (DAUs). Running the numbers, we find that, on average, for every \$1.00 generated on iOS, the same app will generate \$0.24 on Android.”

Information Consumption through Technology

Ethical Considerations

Harmony
Wisdom
Power

Dynamic Methodologies

Project Based Learning
Action Research
Appreciative Inquiry

Free Asynchronous Courses

[MIT Open Courseware](http://ocw.mit.edu/index.htm) (
<http://ocw.mit.edu/index.htm>)

[Open Yale Courses](http://oyc.yale.edu/)
(<http://oyc.yale.edu/>)

[Harvard Open Learning Initiative](http://www.extension.harvard.edu/open-learning-initiative)
(
<http://www.extension.harvard.edu/open-learning-initiative>)

[Top 10 Universities with Free Courses Online](http://www.jimmyr.com/blog/1-Top-10-Universities-With-Free-Courses-Online.php) (
<http://www.jimmyr.com/blog/1-Top-10-Universities-With-Free-Courses-Online.php>)

[Open Culture](http://www.openculture.com/freeonlinecourses) (
<http://www.openculture.com/freeonlinecourses>)



Knowledge Production through Technology

Ethical Considerations

Harmony
Wisdom
Power



Free Asynchronous Courses

[MIT Open Courseware](http://ocw.mit.edu/index.htm) (
<http://ocw.mit.edu/index.htm>)

[Open Yale Courses](http://oyc.yale.edu/)
(<http://oyc.yale.edu/>)

[Harvard Open Learning Initiative](http://www.extension.harvard.edu/open-learning-initiative)
(
<http://www.extension.harvard.edu/open-learning-initiative>)

[Top 10 Universities with Free Courses Online](http://www.jimmyr.com/blog/1_Top_10_Universities_With_Free_Courses_Online.php) (
http://www.jimmyr.com/blog/1_Top_10_Universities_With_Free_Courses_Online.php)

[Open Culture](http://www.openculture.com/freeonlinecourses) (
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