Strathmore University

11th May 2007

Learning Management System

Dr Joseph Sevilla
eLearning

- eLearning is any learning that uses ICT
  - Computer aided instruction, use of ICT, Internet.
  - Making full use of the wide range of pedagogic opportunities provided by ICT.
  - A very wide term encompassing many different implementations.
- eLearning is not Distance Learning.
- Distance Learning, Blended Learning are examples of different types of eLearning.
Blended Learning

- A learning programme where more than one delivery mode is being used with the objective of optimising the learning outcome and the cost of program delivery.

- At the simplest level, it combines offline and online forms of learning, where online learning usually means "over the Internet or Intranet," and offline learning happens in a more traditional classroom setting.
Delivery Platforms

- Software programmes that facilitate the delivery of knowledge are often referred as:
  - VLE: Educational Virtual Learning Environments.
  - CMS: Course Management Systems.

- Examples:
  - Open Source: Moodle, Sakai.
  - Commercial: WebCT, Blackboard.
Delivery Types

- Delivery type falls into two broad categories:
  - Synchronous delivery (real-time)- streaming, conferencing, and archived presentations.
  - Asynchronous delivery (delayed time) through the use of LMSs, collaborative spaces, and discussion boards.
In Higher Education

- It encompasses blended learning as well as distance learning
  - ICT is used as a communications and delivery tool between individuals and groups:
    - to support students.
    - to improve the management of learning.
- Provides accessibility irrespective of time, space, lecturer availability.
- More learner based, student focused and flexible system.
- Make the learning experience more effective and enjoyable.
In Higher Education

- Cross-sector multi-disciplinary approach; technology based but not an exclusive field of the ICT experts.
  - From being technology led ...
  - To become focused in pedagogy to support diversity and flexibility in content delivery.
- ICT is the vehicle not a product.
In Higher Education

- Be more effective in delivering knowledge:
  - Every learner learns at his/her own pace.
  - Every learner learns at his/her own time.
  - Every learner learns at his/her own location.

- Achieve greater learner participation:
  - eLearning provides a higher level of motivation.

- Proven method that improves learning, performance and grades.
  - Research results consistently demonstrate superior benefits of eLearning.
What is Offered

- Students are able to:
  - access information, resources, tutor support, expertise and guidance.
  - communicate with other students effectively wherever they are.
  - check and monitor their own progress and achievements to enable personal and professional development.
What is Offered

Teachers are provided with:

- tools for course design to enable better communication between them and their students, giving feedback and targeted support.
- access to information about the materials available, and support for continuous improvement.
Moodle

- Open Source eLearning Platform: (www.moodle.org)
  - Over 233,368 registered users (2006: 150,000; 2005: 75,000).
  - Over 75 languages (2005: 70).
Moodle

Other stats:

- Courses: 1,020,786
- Users: 10,355,750
- Teachers: 1,543,874
- Enrolments: 15,180,470
- Forum Posts: 11,293,492
- Resources: 6,558,814
- Quiz questions: 8,077,715
There are 47 sites with more than 20,000 users.
The site with the most users is moodle.org with 43 courses and 233,368 users.
The site with the most courses is E-learning na VUT v Brně with 19,223 courses and 41,305 users.
Moodle

Static Content:
- Course Syllabi/Outline.
- Manuals, books on line.
- Course notes, examples, assignments.
- Additional teaching materials including multimedia.
- Exam guidelines, past papers, etc.
- Internet links to relevant resources.
- Glossaries.
Moodle

- **Dynamic Content:**
  - Virtual one to one lecturer supervision.
  - Journal, notice-boards/announcements.
  - Student to student interaction:
    - Chat, forums and discussion groups.
    - Group projects.
  - Wikis and Blogs.
  - Tools to monitor progress:
    - Assignments, self-assessment quizzes.
    - On-line examinations, automatic grading.
    - Surveys.
  - Workshops
Weekly outline

Notes from Foundation Courses
- C++ Class Notes 9
- C++ Class Notes 1 OOP 1
- C++ Class Notes 2 OOP 1

Useful Books
- Basic Books
- Intermediate Books
- Advanced Books
- My C++ Library

Free Compilers
- Dev C++ Compiler

Final Project and Marking Guidelines
- Marking Scheme
- Project Submission (Updated)

***Deadlines for Final Submissions***
- Hard copies (Deliverables 1.1 and 1.2) by Monday, 3rd April 2006 to Ms Rose Wahome.
- Soft copies (Deliverables 1.1 and 1.2) by Saturday, 1st April 2006 via this website. Use the assignment link below for this submission.

Supplementary Examinations
- Students should re-submit the same deliverables as requested for the final submission.

***Deadlines for Submission***
- Hard copies (Deliverables 1.1 and 1.2) by Friday, 23rd June 2006 to Ms Rose Wahome.
- Soft copies (Deliverables 1.1 and 1.2) by Friday, 23rd June 2006 via this website. Use the assignment link below for this submission.

Supplementary Exams Submission
- Teacher forum

14 November - 20 November
- Employee Class v 1
- Homework 1

21 November - 27 November
- Input Output
<table>
<thead>
<tr>
<th>Date Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 December - 11 December</td>
<td>Company Programs v1 Assignment 2 - Company Class Implementation</td>
</tr>
<tr>
<td>12 December - 18 December</td>
<td>Answer to Assignment 2 (Read the explanation...) Assignment 2 - Code for DevC ++ (Read notes...) Company - Implemented as pointer to array of pointers</td>
</tr>
<tr>
<td>19 December - 25 December</td>
<td></td>
</tr>
<tr>
<td>26 December - 1 January</td>
<td></td>
</tr>
<tr>
<td>2 January - 8 January</td>
<td></td>
</tr>
<tr>
<td>9 January - 15 January</td>
<td></td>
</tr>
<tr>
<td>15 January - 22 January</td>
<td>Project Proposal</td>
</tr>
<tr>
<td>23 January - 29 January</td>
<td></td>
</tr>
<tr>
<td>30 January - 5 February</td>
<td></td>
</tr>
<tr>
<td>5 February - 12 February</td>
<td></td>
</tr>
<tr>
<td>13 February - 19 February</td>
<td>SQL Exercises, SQL Exercises (Non Compulsory Assignment), Company Database Please do not submit a database 🆘. I only need a text/Word file with the SQL statements 😊. Thanks.</td>
</tr>
<tr>
<td>20 February - 26 February</td>
<td></td>
</tr>
<tr>
<td>27 February - 5 March</td>
<td>ComboBox Sample code</td>
</tr>
<tr>
<td>1 Apr, 12:40</td>
<td>MILLICENT MICERE MUIGAI ERROR!!! more...</td>
</tr>
<tr>
<td>30 Mar, 11:14</td>
<td>MILLICENT MICERE MUIGAI compiler error more...</td>
</tr>
<tr>
<td>30 Mar, 10:55</td>
<td>Ilin Anthony Homem OpenGL moving around in 3D &amp; SetFocus() more...</td>
</tr>
<tr>
<td>29 Mar, 11:48</td>
<td>Angalia Mrakali Njawa big problem...HELP more...</td>
</tr>
<tr>
<td>17 Mar, 17:31</td>
<td>Elizabeth Gitau Connecting Forms more...</td>
</tr>
<tr>
<td>People</td>
<td>Participants</td>
</tr>
<tr>
<td>Latest News</td>
<td>Add a new topic...</td>
</tr>
<tr>
<td>1 Apr, 13:40</td>
<td>MILLICENT MICERE MUIGAI ERROR!!! more...</td>
</tr>
<tr>
<td>30 Mar, 11:14</td>
<td>MILLICENT MICERE MUIGAI compiler error more...</td>
</tr>
<tr>
<td>30 Mar, 10:55</td>
<td>Ilin Anthony Homem OpenGL moving around in 3D &amp; SetFocus() more...</td>
</tr>
<tr>
<td>Discussion</td>
<td>Started by</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>ERROR!</td>
<td>Millicent Micere Mугай</td>
</tr>
<tr>
<td>compiler error</td>
<td>Millicent Micere Mугай</td>
</tr>
<tr>
<td>Direct database Access code for ODBC</td>
<td>George Nyanuga Ombese</td>
</tr>
<tr>
<td>c++ components/libraries</td>
<td>Kevin Rombe</td>
</tr>
<tr>
<td>Connecting Forms</td>
<td>Elizabeth Gitau</td>
</tr>
<tr>
<td>OpenGL moving around in 3D &amp; SetFocus()</td>
<td>Irvin Anthony Homem</td>
</tr>
<tr>
<td>big problem HELP</td>
<td>Angela Mwikali Ngava</td>
</tr>
<tr>
<td>Thin Clients: Disaster to EBIT Students</td>
<td>Eunice M Maingi</td>
</tr>
<tr>
<td>International Competition for African students</td>
<td>Joseph Sevilla</td>
</tr>
<tr>
<td>Dealing with Combo box</td>
<td>George Nyanuga Ombese</td>
</tr>
<tr>
<td>HELP TIMERS</td>
<td>Lynette Awour Ogola</td>
</tr>
<tr>
<td>APPEAL FOR PROJECT SUBMISSION</td>
<td>Robinson Gakuo Njau</td>
</tr>
<tr>
<td>one book</td>
<td>Timothy Kibet Kipchumba</td>
</tr>
<tr>
<td>Space in the servers</td>
<td>Joseph Sevilla</td>
</tr>
<tr>
<td>Help please!</td>
<td>Robinson Gakuo Njau</td>
</tr>
<tr>
<td>More help please!!!</td>
<td>Robinson Gakuo Njau</td>
</tr>
</tbody>
</table>
Top 10 Benefits of eLearning

1. Cost savings
2. Anytime
3. Anywhere
4. Scalable
5. Tracks users
6. Self-paced
7. Participative
8. Consistency
9. Multimedia delivery
10. Self-assessment
Top 10 Cost Savings in eLearning

- Trainer accommodation
- Trainer travel
- Trainer subsistence
- Learner accommodation
- Learner travel & subsistence
- Classrooms
- Equipment
- Off-the-job time
- Print costs
- All of the above repeat costs