ICT Project Nomination Form 2011

The teams choose projects based on this short description. There is no guarantee that your project will be taken, make it sound as interesting and as educational as possible.

Project Title:
What’s under the virtual microscope?

Client retains Intellectual Property: Yes/No
Confidentiality Agreement required: Yes/No

Project Description:
The aim of this project is to build on the experiences of a previous project team and develop the next phase of a larger developmental project on the CALT virtual island of Pandani.

The group would be asked to create a generic 3D virtual laboratory furnished with basic medical training equipment (desks, stools, sinks etc). This could be done from scratch – or from existing virtual materials, based on defined requirements by a Human Life Sciences technical advisor. It is intended that this activity space be made available for use to UTAS students in semester 1, 2011 that are enrolled in the unit CXA171 Cell Biology and Function.

This initial development would then be augmented by the creation of medical binocular microscopes that project onto wall screens, images of what is currently being viewed by the student operator. The student would also need to navigate through a series of activities to successfully complete simple observation tasks using the microscope.

Of particular interest within this project is how the group creates, tests and utilizes simple object interaction scripts using Linden-script.

While this project may sound complex, there are many sources of scripts available which could enable the project group to construct items by using already defined objects scripts, rather than designing the scripts from the ground up.

This is a chance to be involved in experimental social teaching and learning techniques that will have substantial impact on how universities educate students in the future.

Project Technical Information:
Development is to take place in the Second Life virtual environment using prefabricated objects, and group constructed objects all created using Linden Script.
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