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Going the Distance: Best Practices in Designing and Sharing Reusable Learning Objects

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Going the Distance: Best Practices in Designing & Sharing Reusable Learning Objects

Philip Russell
Deputy Librarian
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LIR Tech Tools for Teaching
DCU, December 9th 2014
Background

• Institute of Technology Tallaght (ITT Dublin) - range of courses / 4500 FTEs

• Information literacy (IL) / eLearning - strategic focus:
  - 3 level IL Framework (2004)
  - Strategic Plan (2009-2014)
  - Learning, Teaching & Assessment Strategy (2011)
‘How To’ Online Tutorials

• May 2010 - aimed at undergraduates / postgraduates
• Self-paced / interactive / 24x7
• Research, critical thinking, academic integrity, referencing, academic skills
• Sustainable / reusable under Creative Commons
Project Plan - ADDIE Model

- Analyse
- Design
- Develop
- Implement
- Evaluate
Planning

• Rationale

• Secured HE funding

• Reviewed existing online tutorials

• ITT resources created from scratch

• Support from IT / learning technologists / Leeds University
Instructional Design

- Biggs’ Model of Constructive Alignment (1999)
  - generic learning outcomes
  - learning activities
  - assessment methods

- Active learning / range of learning styles
Gagné’s 9 Steps

- Gaining learners attention
- Informing learners of objectives
- Stimulating recall of prior learning
- Highlighting key features
- Structuring learning
- Providing feedback
- Encouraging activity
- Assessing performance
- Enhancing retention and transfer
Content Design

• Detailed storyboarding

• Language / consistent font / bullet points

• Branding / logo

• Accessible
Development Tools

• Created with Articulate Studio 09
• Engaging content / quizzes
• Non technical / easy to use functionality
Training

• Pedagogical training
  - learning styles / methodologies / assessment
  - online instructional design

• ICT training
  - eLearning software
  - Image editing – Photoshop
  - Web editing – HTML, Dreamweaver, CSS
Testing & Accessibility

• September 2010 - extensive usability testing / feedback / piloting

• SCORM (sharable content object reference model) 1.2 compliant

• W3C AAA (Web Content Accessibility) Guidelines 1.0

• Creative Commons Attribution-Non-commercial-Share Alike 4.0 International licence

• Available via multiple delivery platforms (website, VLE, institutional repository)
Implementation

- Tutorials embedded into academic modules via Institute VLE – Moodle

- Enhanced IL delivery
  - Blended approach
  - Learning to Learn module
  - September 2014 – tutorials integrated into over 50 academic modules
Tutorial Usage


Total Completions: 5944

- Undergraduate: 76%
- Postgraduate: 10%
- Academic: 8%
- Support staff / other: 6%
Evaluation Methods

• SurveyGizmo
• VLE/Google Analytics
• Focus Groups
• Online Repositories
Feedback

Students

• Improved IL competencies
• Independent learning
• Transition into higher education

Staff

• Enhanced course content
• Accessibility of resources
• Advocates for sharing
“Great tutorial - very good explanation of plagiarism and how to avoid it. Thought the quiz was very useful - meant I could check that I understood the material in the tutorial.”

“As a new student this online resource has made my introduction to college a lot easier, and helped me with my studies. I feel that I am more likely to succeed now at all levels of my course.”

“An excellent learning resource – but please add some audio for students with reading difficulties, video content would also be of help.”
Share and Reuse

- Institutional repositories / national learning object repositories
- Conferences, seminars, workshops, professional networks
- Publications
OER Repositories

Information Literacy Resources - to be sure!

Posted by Louise Egwin on 17th March 2014

To coincide with March being the month of St Patrick and all things Irish, JORUM is delighted to present 5 Featured Resources.

These information literacy resources have been created at the Institute of Technology Tallaght in Dublin (ITT Dublin). Included are online tutorials created by the ITT Dublin covering research, referencing, plagiarism and core academic skills. The fifth Irish University, University College Dublin (UCD), has repurposed one of ITT Dublin’s originals. Author Jenny Callanan, ITT’s Plagiarism resource to create a new OER for plagiarism.

I selected the IT Tallaght Plagiarism Tutorial as it was simple and comprehensive.

September 2013 Site of the Month

PRIMO

“How To” Online Information Literacy Tutorials

http://www.your.it.tallaght.ie/ncg2/hdl/id/6121/1/PRIMO%20site%20of%20the%20month/How%20to%20Write%20a%20Literature%20Review.pdf

Author: Philip Russell, Deputy Librarian

Interviewee: Philip Russell

Institution: Institute of Technology Tallaght (ITT Dublin), South Dublin

Online Literature Review Tutorial

Information literacy, academic teaching and learning support

Institute of Technology Tallaght
www.ittdublin.ie

Participant(s): Philip Russell

Description: The aim of this project is to introduce all students to the literature review concept and provide them with an understanding of how to write up the literature review through the design and development of an online learning tool.
Sharing With the Wider Community
Plagiarism
Avoid it at all costs!

This tutorial was adapted from the IT Tallaght, "How to avoid plagiarism" tutorial. Available at http://millennium.it-tallaght.ie/screens/tut.html
Factors to Consider for Reuse

• Generic resources

• Interoperable software / SCORM

• Explicit licencing details

• Accessible & discoverable

• Promote / lead by example
Value

Best Practice

Enhance Teaching Practice

Enrich Learning Experience

Collaboration

Community of Practice
Lessons Learned

- Staffing / time / funding
- Storyboarding / training
- Extensive testing
- Use feedback to improve
Future Directions
Thank You

ITT Dublin library RLOs at:

http://library.ittdublin.ie/screens/tut.html

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References


References


Image Attributions

Slide 1: David Peters. Sharing Book Cover

Slide 5: Paul Kilne. Dad’s Helping Hand
https://www.flickr.com/photos/paulelijah/14116599256/sizes/l/

Slide 9: Gerd Altmann. Learning

Slide 11: Sabine Schulte. Tools
http://pixabay.com/p-384740/?no_redirect

https://www.flickr.com/photos/ajc1/9568156463/

Slide 18: Blink and you’ll miss it
https://secure.flickr.com/photos/comedynose/4058757916/