2014-12-09

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

Philip Russell
Institute of Technology, Tallaght, philip.russell@ittdublin.ie

Follow this and additional works at: http://arrow.dit.ie/ittsupcon

Part of the Educational Methods Commons, Information Literacy Commons, Instructional Media Design Commons, and the Online and Distance Education Commons

Recommended Citation

This Conference Paper is brought to you for free and open access by the Support Services at ARROW@DIT. It has been accepted for inclusion in Conference Papers by an authorized administrator of ARROW@DIT. For more information, please contact yvonne.desmond@dit.ie, arrow.admin@dit.ie, brian.widdis@dit.ie.

This work is licensed under a Creative Commons Attribution-Noncommercial-Share Alike 3.0 License
Going the Distance: Best Practices in Designing & Sharing Reusable Learning Objects

Philip Russell
Deputy Librarian
Institute of Technology Tallaght
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
- Encouraging activity
- Providing feedback
- 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

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

ITD Dublin
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
Students’ Comments

“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
Information Literacy Resources - to be sure!

Posted by Louise Edgar 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 resource is from another Irish University, University College Dublin (UCD), has repurposed one of ITT Dublin's originals. Author Jenny Callanan is an ITT's Plagiarism resource to create a new OER for plagiarism.

I selected the IT Tallaght Plagiarism Tutorial as it was simple and comprehensive. UCD have just launched a new guide on Academic Writing.

NDLR

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!
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

Community of Practice

Collaboration

Enrich Learning Experience
Lessons Learned

• Staffing / time / funding
• Storyboarding / training
• Extensive testing
• Use feedback to improve
Thank You

ITT Dublin library RLOs at:

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

philip.russell@ittdublin.ie
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/