

**RLO and Question Bank Development Fund Project  
Final Report Template (for the period 29<sup>th</sup> September – 31<sup>st</sup> January 08)**

<b>Project Team: Jim Smith, Andrew Warrington, Steve Cayzer</b>	
<b>Principal Grantholder: Dr Jim Smith</b>	
<b>Position:</b> Reader in Artificial intelligence	<b>Department:</b> School of Computer Science
<b>Institution:</b> University of the West of England, Bristol	
<b>Address:</b> Frenchay Campus, Coldharbour Lane, Bristol, BS161QY	<b>Tel:</b> 0117 3283161
<b>Title of Project:</b> Creation of OnLine Assessments for Teaching Artificial Intelligence	
<b>Description of tasks undertaken during the project:</b> <ul style="list-style-type: none"> <li>• Meetings with Disabilities Resource Centre (DRC) and University's Web standards and accessibility team to analyse the issues regarding accessibility with the available technology (Blackboard), and identify appropriate guidelines for developing materials.</li> <li>• Identification of range of topics and abilities to be covered</li> <li>• Production of a pool of questions, and associated meta-data.</li> <li>• Evaluation of questions through weekly use with a group of students, and via feedback sessions</li> <li>• Evaluation of accessibility by screen readers of a sample test.</li> </ul>	
<b>Outcomes (including URL for any materials developed):</b> <p>The principal outcome of this project is a pool of 107 questions which are available from the url <a href="http://www.cems.uwe.ac.uk/~jsmith/rlo">www.cems.uwe.ac.uk/~jsmith/rlo</a> . They are packaged as zip archives of xml files, which can be directly imported into blackboard, or into other formats by using a suitable xml translator such as those available in Respondus (<a href="http://www.respondus.com">www.respondus.com</a>).</p> <p>The pool has been designed to provide a wide range of different question types including multiple choice, multiple answer, numerical calculation, missing blanks, jumbled sentences, matching and ordering.</p> <p>The questions cover a range of topics in Artificial Intelligence, and each question is tagged with meta data concerning its primary topic (introduction, philosophy, search, knowledge representation, problem representation, artificial neural networks, evolutionary computation) and level of difficulty (easy, moderate, difficult). The questions have been extensively tested and refined via their use for weekly formative assessment in a level 1 undergraduate module "Introduction to Artificial Intelligence" with 103 student users. To this end, they also contain extensive feedback to aid their use in formative as well as summative assessment.</p> <p>A second outcome of the project was an analysis of the issues concerned with ensuring fair access to this material for a wide range of users. A brief report on this issue is attached as a separate document.</p> <p>The final outcome of this project takes the form of a web page (<a href="http://www.cems.uwe.ac.uk/~jsmith/rlo">www.cems.uwe.ac.uk/~jsmith/rlo</a>), paper and posters describing the project and its results and deliverables. The paper will be submitted to the 9th Higher Education Academy Annual Conference, Liverpool 2008, and a technical report version will be made available on the web page. This will include more detailed analysis of the impact of the materials and their use on student retention and examination results, as this data becomes available.</p>	

<b>Financial statement</b>			
	<b>Expenditure (£)</b>	<b>Claimed in 1<sup>st</sup> period</b>	<b>Variance from original budget</b>
Salaries/Staff costs	Total cost £6531.60. Contribution requested = £3000	852.88.  £1500 received	+281.60 Influence of UWE implementing Pay Equality Scheme,
Travel & Subsistence	0		-250. Conference not yet paid for. UWE will cover from other budgets
Consumables			
Other			
Total	£3000 requested	£1500 received	+31.60