Building a WEKO-based institutional repository system - a case example of WOU library

URL
http://weko.wou.edu.my/?action=repository_uri&item_id=448

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BUILDING A WEKO-BASED INSTITUTIONAL REPOSITORY SYSTEM - A CASE EXAMPLE OF WOU LIBRARY

by

WOU WEKO Team

Pre-Symposium Workshop

2nd Regional Symposium on OER: Beyond Advocacy, Research and Policy

Penang, Malaysia

24 June 2014
Overview of WOU WEKO Project

- Project Awareness, Aims & Institutional Repository Setup
- Support & Networking with OERAsia
- Moving forward – Promotion
Outcome of the GLOBE-OER Asia Workshop discussion (26 August 2013, Penang – OUJ, UT, OUHK, UPOU, CTI-Ecuador, WOU) – architecture and roadmap of OER Asia federated repositories concept was drafted and sent to all OER Asia members

Open University of Japan (and National Institute of Informatics, Japan) can provide metadata registration/management functions for members without any IR e.g. WEKO database system; this is used for GLOBE Referatory@Japan

More than 200 Japanese universities utilize WEKO as their IR via JAIRO Cloud service

WEKO has the potential for further expansion for GLOBE harvester due to its OAI-PMH functionalities

Expected outcome of the project is to develop an IR and link to OER Asia
Project Aims

To build and run institutional OER repository using WEKO as it has the OAI-PMH and archiving functionalities.

To provide a central, easily accessible and easily updateable repository of OER items for harvesting by organisations using OAI-PMH.

To promote OER production among our academic staff.

To support the OER movement thus participate in OERAsia and GLOBE Harvester network.
<table>
<thead>
<tr>
<th>Project Title</th>
<th>Setting-up a WOU Institutional Repository Using WEKO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Funder</td>
<td>WOU’s Institute for Research and Innovation (IRI)</td>
</tr>
<tr>
<td>Project Team Members</td>
<td>Library Director, ITS Manager, Assistant Library Manager (3)</td>
</tr>
<tr>
<td>Project Timeline</td>
<td>03 February 2014 – 31 January 2015 (1 year)</td>
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<tr>
<td>Project Development: Activities</td>
<td></td>
</tr>
<tr>
<td>February 2014</td>
<td>Preliminary discussions with NII &amp; OIJ Trainers, Japan</td>
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<tr>
<td>3 - 4 March 2014</td>
<td>Organised WEKO Training Workshop (WOU, Penang) (conducted by NII &amp; OIJ Trainers, Japan) – 12 participants - System Librarians from 3 local universities (AeU, UNIMAP, UPM) and WOU ITS+Library staff</td>
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</table>
# Research Project Activities

<table>
<thead>
<tr>
<th>Time Period</th>
<th>Activities</th>
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| Mid-March 2014       | • Installation and setup of WEKO system (ITS)  
                        • Create users’ profile and review system control management modules (Library) |
| April – May 2014     | • Define index tree, develop metadata fields  
                        • Analyze existing records metadata for migration, data mapping, create templates, multiple data loading (using SWORD Client for WEKO application), configure webpage user interface and content  
                        • Manual item registration into various index trees  
                        • System parameter settings - security control for different level of WEKO users  
                        • Testing and review techniques and process flows |
| June 2014 - present  | • Populate content and configure graphic user interface  
                        • Design marketing products e.g. Posters, Brochures |
| July – September 2014 | • Marketing to Malaysian universities for participation in WOU OER Asia project |
| October – December 2014 | • Harvest metadata content to OER Asia/GLOBE |
| January 2015         | End of project                                                                                   |
Project Organisation

Advisors

Prof K Yamaji
NII (WEKO)

Prof T Yamada, OUJ
(OER Asia & GLOBEreferatory@Japan)

IT Infrastructure

Metadata & Content Management

Harvest to OERAsia - GLOBE

Project Leader
(Library Director)

Team Members
(IT Manager & Group; Assistant Library Manager)

NII = National Institute of Informatics, Japan
OUJ = Open University of Japan
OER IR Content & Organisation

School / Department

Teaching Courses

Course materials, Learning objects, Reference materials

Research Projects

Reports, Papers, Articles, Theses, Dissertations by Graduate students
Methods of Metadata Content Authoring

Use of WEKO web authoring application to create metadata content (item type management)

Use of index tree and item management

Use of converter application to deposit multiple contents from another platform
Metadata Process Workflows

Registered user creates content (Pre-defined metadata template)

WEKO applies metadata (item type & index tree)

Review/Approve/Reject Content (Chief Administrator)

Available on WEKO web

WEKO publishes to web servers

http://weko.wou.edu.my
Project Significance

Provides online visibility to WOU OER

Encourage sharing and reusing of online learning resources among members of OER Asia and GLOBE

Fills the gaps of technical problems using other open source system
Limitation of English reference manuals – further discussion with NII on developing the manuals
## OER Repository

An online collection of the University's Open Educational Resources (OER), learning objects metadata and other learning materials output

### Index List

<table>
<thead>
<tr>
<th>008 Teaching/Learning material</th>
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<tbody>
<tr>
<td>School of Business and Administration [0 items]</td>
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<tr>
<td>School of Education, Languages and Communication [2 items]</td>
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<tr>
<td>School of Foundation and Liberal Studies [2 items]</td>
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<td>School of Science and Technology [1 items]</td>
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### Item List

<table>
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<tr>
<th>008 Teaching/Learning material</th>
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<tbody>
<tr>
<td>FED505/05 Curriculum Development course guide</td>
</tr>
<tr>
<td>ELL207/05 Pragmatics course guide</td>
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<table>
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<tr>
<th>008 Teaching/Learning material</th>
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</thead>
<tbody>
<tr>
<td>ILS201/05 Exploring Social Sciences course guide</td>
</tr>
<tr>
<td>TEL203/05 Process Control and Instrumentation course guide</td>
</tr>
</tbody>
</table>

© 2014. WOU OER initiative. WOU OER repository is powered by WEKO, a homegrown repository software developed by the National Institute of Informatics (NII), Japan. For more information please contact us at oerenquiry@wou.edu.my
http://weko.wou.edu.my (Metadata)

**OER Repository**

An online collection of the University's Open Educational Resources (OER), learning objects metadata and other learning materials output.

### WEKO

The WEKO interface allows you to select and manage metadata for items.

### Metadata Table

<table>
<thead>
<tr>
<th>metadata name</th>
<th>input type</th>
<th>Dublin Core</th>
<th>JNii2</th>
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</table>

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### Resources

- **About WEKO.zip** (Professor Kazutoshi Yamaji, National Institute of Informatics)
- **GLOBE Referatory Japan.pptx** (Professor Tsuneo Yamada, The Open University of Japan)
Support & Networking with OER Asia

OER Asia is an Asian Forum to share information, views and opinion, research studies and knowledge resources about OER in the Asian Region; virtual community network.

This network is collaborating with GLOBE to create a federation of metadata repositories which will provide members with access to metadata on what is available in member’s repositories.

Thus, WOU’s building of WEKO-based IR learning objects metadata could ultimately join the OER Asia federated repositories.
Framework Model of WOU OER IR with OER Asia and GLOBE

Malaysian’s Institutional Repositories

WOU OER IR

OAI-PMH Harvesting

OAI-PMH Harvesting

GLOBE Harvesting Metadata

http://www.oerasia.org/
Moving forward – Promotion activities

Examples:

Universiti Sains Malaysia
Asia e University
UniMAP
Universiti Putra Malaysia
Universiti Utara Malaysia
OPEN UNIVERSITY MALAYSIA
THANK YOU!
Q & A

For further information feel free to contact us:

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