An OER design authoring model for versioning (RAO)

Un modelo de creación de contenidos en abierto para el aprendizaje

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Learning materials authoring process

- Learning material elaboration
- Learning material supervision/validation
- Learning material production
- Learning material update and upgrade throughout a learning process
Objectives

• Develop an authoring model of SME open educational resources for learner versioning (RAO).

• Elaborate a guide for supporting the integration of the RAO model to a learning process within the teaching strategy.

• Provide a list of technical requirements for the RAO implementation that ensures easy upgrade, rework and repurposing.

• Implement an OER for versioning within the course "Fundamentals of techno-pedagogical design” of the METIC.

• Validate the approach of RAO from the student perspective (motivation and support for knowledge building and skills development) within the said course.
RAO principles

Content / knowledge
- Disciplinary structure
- Learner profile
- Target competences
- Socially constructed
- Endless

Pedagogy
- Learning activity
- Output as learning evidence (LGC)
- Media affordance

Technology
- Open for:
  - Updating
  - Reusing
  - Repurposing
  - Versioning
Roles and editing rights

Session

Version
RAO underpinnings

- **media pedagogical classification**

- **Discipline / expertise**

- **Target competences**

- **SME content**

- **learning activities**

- **cognitive**

- **task**

- **output content**

- **Extension**
  - Synthesis
  - Rework
  - Completion
  - Discussion
  - Questioning
  - Comment
  - Value

- **(activity output)**

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LGC: output content level taxonomy

• **Extending**: adding more information, examples, testimonies, cases on a given specific subject.

• **Synthesizing**: adding a synthesis of a given chunk of content.

• **Reworking**: rephrasing, restructuring, reusing, mashing up or remixing content according to different perspectives or purposes (repurposing).

• **Completing**: developing new knowledge based on content omissions, new available knowledge or new generated knowledge.

• **Questioning**: introducing open questions and arguments that may contradict or make evident content flawless, inconsistencies or biases.

• **Discussing**: exchanging ideas around a subject, defending and taking positions on controversial aspects of the subject.

• **Commenting**: giving personal opinions about a given subject

• **Valuing** (rating): expressing a quantifiable / measurable judgment on a subject
RAO conceptual authoring model

Authoring for openness
Authoring for learning
Authoring for participation and versioning

Discipline/field knowledge + Author expertise + Course target competences
Conole & Fill’s task taxonomy + Anderson & David’s cognitive processes taxonomy + Maina & Guàrdia’s output content taxonomy

Laurillard’s media classification

*SME content*

Extending
Synthesizing
Reworking
Completing
Questioning
Discussing
Commenting
Valuing

LGC (activity output)

Learning activities
RAO mock-up
RAO mock-up
Editing mode (prototype)
Viewing mode (prototype)

Questions?
Comments?

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