



Module Specification

Knowledge Organisation

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Part 1: Information

Module title: Knowledge Organisation

Module code: UFCFLD-30-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 30

ECTS credit rating: 15

Faculty: Faculty of Environment & Technology

Department: FET Dept of Computer Sci & Creative Tech

Partner institutions: None

Field: Computer Science and Creative Technologies

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: See Learning Outcomes

Outline syllabus: Introduction to information: theories of information and communication, purpose and philosophy of information. Theories of language, grammar and logic. The impact of information technology, databases and new forms

of data representation.

Practice of information organisation: pre-coordinate methods versus modern statistical searching.

Digital information representation: information formats (documents and multimedia) and digitisation. Selection policies and quality control in digitisation projects.

Information identifiers: DOI, ISBN.

Overview of databases: relational structures, database design and data integration problems.

Markup for adding semantics to documents and preserving structure. Markup language standards, HTML and XML.

Metadata: Document and content analysis, theory design and application of metadata element sets such as Dublin Core, MARC-XML, MODS, TEI and METS; Balancing user needs, content and context in designing metadata schemes and application profiles.

Taxonomies, ontologies and classification: Cataloguing, AACR2, and MARC, access control, controlled vocabularies, thesauri and OWL. Example domain ontologies e.g. FRBRoo, INDECS.

User-oriented/"bottom up" classification: tagging and folksonomy. Comparison to "top down" approaches. Crowdsourcing classification and content enrichment work.

Semantic Web technologies: RDF and microformats, SPARQL and Linked Open Data.

Information seeking behaviour, theories of information retrieval, search algorithms and search evaluation. Designing and implementing search.

Planning and implementing digital collections. User interface design and information

architecture principles. Selecting and configuring digital collection management systems.

Legal and preservation considerations in digital collections. Intellectual property rights and preservation lifecycle planning.

Part 3: Teaching and learning methods

Teaching and learning methods: Contact time will be 48 hours within a single semester.

Scheduled learning (48 hours) will include lectures, seminars, practical classes and workshops.

Independent learning (250 hours) includes hours engaged with essential reading, assignment preparation and completion.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Understand the nature of information in digital and traditional forms

MO2 Design and apply classification schemes representation formats for information resources using conventional library methods and contemporary digital approaches

MO3 Gain an advanced knowledge of information needs, information seeking behaviour and approaches to information retrieval

MO4 Develop competence in planning, selecting, implementing and evaluating digital collection management systems and information retrieval tools

MO5 Understand legal, managerial and sustainability issues in providing access to and preservation of digital materials

MO6 Create outputs that balance the requirements of users and context while capturing the essential qualities of the content

MO7 Develop critical thinking, evaluative and research skills

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 252 hours

Face-to-face learning = 48 hours

Total = 300

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ufcflid-30-m.html) via the following link <https://uwe.rl.talis.com/modules/ufcflid-30-m.html>

Part 4: Assessment

Assessment strategy: The module will be assessed by means of a portfolio of outputs created by students working alone or in groups throughout the term. Students will upload the outputs as created to the Blackboard virtual learning environment. Feedback will be given in class and/or through Blackboard. At least two milestones will be selected for more extensive feedback and peer review of the outputs, with provisional marks being allocated.

While specified tasks and outputs will vary they may include:

Valid, hand-coded XML, HTML and RDF files showing and conforming to best practice.

Excerpts from ontologies or structured vocabularies for an example domain.

Metadata scheme designs based on common standards for specific use cases.

Catalogue records showing correct selection and use of scheme elements.

Critical comparisons of structured classification systems with user-based approaches (tagging and folksonomy).

Digitisation and preservation policies or plans for specific scenarios.

Screenshots/links from Digital Collection Management Systems configured for specific content and/or metadata.

Search systems built for specified document collections, conforming to specified

retrieval criteria.

Comparative evaluations of a set of search and retrieval interfaces, based on predefined criteria.

Short literature reviews on topical issues in knowledge organisation.

Portfolio entries will typically be accompanied by short reflective or evaluative commentaries of 2-500 words. Between 5 and 10 portfolio entries will be required depending on the tasks selected.

Marks for the students' full portfolio will be finalised by tutors at the end of the module. High level assessment criteria for the portfolio will be:

Outputs conforming to standards and (where applicable) pass validity tests against a standard or schema.

Outputs show the application of best practice as introduced in the appropriate module session.

Outputs meet constraints introduced by the scenario relating to the needs of the end user, the nature of the content and the specific needs of the target domain.

Outputs show creative solutions to these constraints.

Evaluative and reflective content shows learning, an understanding of the methods used and recognition of where further work or improvement is needed.

Literature reviews show identification of appropriate literature, critical review thereof, and succinct synthesis of themes and ideas.

Assessment tasks:

Portfolio (First Sit)

Description: Portfolio

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6, MO7

Portfolio (Resit)

Description: Portfolio

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6, MO7

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Information Management [Frenchay] MSc 2023-24

Information Management [Frenchay] MSc 2022-23