



KDI ● **Knowledge and Data Integration**

Project Organization

Phase: 2. iTelos Methodology Project

W2.L4.M2.T51

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Course objectives

Recall the objectives of the course

Theory. Introduction to a set of important **notions**, (e.g., knowledge, data, semantic-heterogeneity, representation languages, ontologies, lexical semantics, ...)

Languages and standards. Introduction to a set of **Languages and standards** largely used in the Web (e.g., OWL, RDF, JSON, Latex, Jupiter, ...)

Tools. Introduction to a set of basic **tools and techniques** which support knowledge and data modeling and integration (e.g., yEd, Protege, KarmaLinker, Wodnet UKC, KarmaLinker, ...)

Practices. Application of the above to the project **development**

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Roles

The project has four roles each associated with a set of duties consisting of activities and corresponding deliverables

- Project Manager
- Domain Expert
- Knowledge Engineer
- Data Scientist

Project Manager

The duty of a project manager is to coordinate the project, such as

- PM1 to finalize the **project report**¹, 8 times (IN², IM, FM, DI, twice each)
- PM2 to develop/present the **project slides** in the final presentation
- PM3 to provide **feedback** on the material and organization of the course at the end of each phase (slides, structure, presentation, tool, etc.), 4 times (each phase)
- PM4 to coordinate the project and keep the project moving

¹The words in red depict a deliverable.

²The 5 phases of iTelos are abbreviated as PU, IN, IM, FM and DI.

Domain Expert

The duty of a domain expert is

- DE1 to finalize the **Purpose section** of the project report;
- DE2 to draft/finalize the **evaluation sections** of the project report, 4 times (IN, IM, FM and DI);
- DE3 to develop/present the **demo** and **demo slides**;
- DE4 to finalize the **code document**, 2 times (IN, FM);
- DE5 to finalize the **metadata for the schema/data level datasets**, 6 times (IM, FM and DI, twice each);
- DE6 to finalize the **codebook**.

Knowledge Engineer

The activities and corresponding deliverables of knowledge engineers are

- KE1 to finalize the **schema level models** (and corresponding datasets for SKG and LKG), 3 times (IN on CQ, IM on EER, FM on SKG and LKG);
- KE2 to draft the **project report**, 4 times (IN, IM, FM, DI);
- KE3 to draft the **metadata for the schema level datasets** (DI on LKG and SKG metadata);
- KE4 to support the project manager in the group organization.

Data Scientist

The activities and corresponding deliverables of data scientists are

DS1 to develop the **code for data processing**, 3 times (IN, FM, DI)

DS2 to finalize the **data level datasets**, 3 times (IN, IM, DI)

DS3 to draft the **project report**, 4 times (IN, IM, FM and DI)

DS4 to draft the **code documentation**, 3 times (IM, FM, DI)

DS5 to draft the **metadata for data level datasets**, twice (IN, IM)

DS6 to support the project manager in the group organization

Common Duties

Two activities leading to deliverables

LEARN to acquire the **knowledge** of KDI on theory, tools and practices

EXAM to take the **written exam** at the end of the course

Three information / feedback activities

- 1 to fill the **personal background form** at the start of the course
- 2 to fill the **project team formation form** before the project starts
- 3 to fill the **course/methodology evaluation** at the end of the course

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Project Gantt



Figure: Project Gantt with Deliverables

Project Gantt with Tutor Tasks

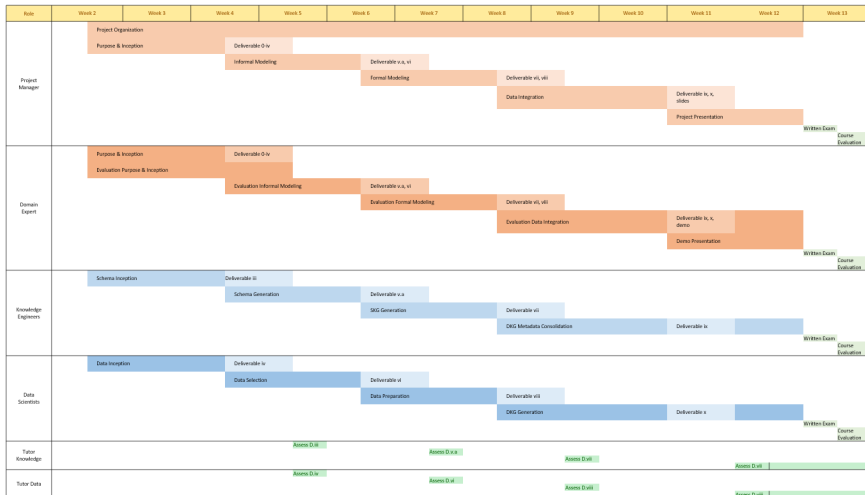


Figure: Course Gantt with Tutor Tasks

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Document Templates

The documentation will be generated using *OverLeaf*. There will be an overleaf project per project

The documentation will have to follow the templates. Available templates:

- Project Report
- Project final Presentation
- Demo slides
- Code Documentation
- Codebook
- Evaluation Report

Templates will be copied into the project by the project manager.

Deliverables

Methodology evaluation using online questionnaire: link to be communicated

All the latex files of the document deliverables must be uploaded in the overleaf projects

All the final deliverables (including the pdf of the overleaf documents) must be uploaded in the corresponding GitHub project.

The github project must be generated by duplicating the template project structure in github.



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