**Exercise on Ontology Development 101**

**This exercise aims to create a knowledge base through the Ontology Development 101. Figure 1 deptics the 6 phases of the methodology. In the following section, the first phase «Determine the domain and scope of the ontology» is already given. Complete the remaining phases.**



Figure 1. Phases of the methodology Ontology Development 101

1. **Determine the domain and scope of the ontology**

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**We want to represent knowledge about**

* + the courses in the MSc in Business Information Systems,
	+ responsibilies for and contribution to these courses.

**Constraints from the underlying reality:**

* + A module consists of a project or a course.
	+ Members of the research staff can be involved in modules of the MSc BIS, he or she can teach a course but can’t coordinate them.
	+ A lecturer or professor are part of the didactic staff and can coordinate a module in the MSc BIS.
	+ Both research and didactic staff are considered academic staff.

**Competency Questions:**

* + - Who is coordinating course X?
		- Which lecture is taught by Y?
		- When does course X start?
		- Who is researcher involved in course X?
		- What’s the module that consists of only a project?
1. **Consider reusing existing ontologies**

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1. **Enumerate important terms**

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1. **Define classes and class hierarchy**

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1. **Define the data and object properties of classes**

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1. **Create instances**

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