Vocab Namespace:

Universities. Information about universities: **dbo:university**

1. The name of the university **dbo:name**

2. Link to the university's entry in DBpedia and/or Wikidata **rdfs:seeAlso**

**Additional : roboprof:offersCourse**

Courses. Information about courses offered at a university, including: **vivo:Course**

1. Course name (e.g., \Intelligent Systems") **dbo:name**

2. Course subject (e.g., \COMP", \SOEN") **vivo:hasSubjectArea**

3. Course number (e.g., \474") **dbo:number**

4. Course credits **vivo:courseCredits**

5. Course description (e.g., \Knowledge representation and reasoning. Uncertainty and conflict resolution . . . ") **dcterms:description**

6. A link (rdfs:seeAlso) to a webpage with the course information, if available. **rdfs:seeAlso**

7. Course outline, if available. **roboprof:courseOutline – property of vivo:Course**

**Additional : roboprof:hasCourseContent**

Lectures. Information about lectures in a course, including: **roboprof:Lecture**

1. Lecture number (sequential count) **dbo:number**

2. Lecture name, if available (e.g., \Knowledge Graphs") **dbo:name**

3. Lecture content, such as: **roboprof:lectureContent – property of roboprof:Lecture**

• Slides **roboprof:slides -subproperty of roboprof:lectureContent**

• Worksheets **roboprof:worksheets**

• Readings (book chapters, web pages, etc.) **roboprof:readings**

• Other material (videos, images, etc.) **roboprof:otherMaterial**

(create a subclass hierarchy for different lecture content types)

4. A link (rdfs:seeAlso) to a web page with the lecture information, if available **rdfs:seeAlso**

Lab. Information about lectures in a course, including: **roboprof:Lab**

1. Lab number (sequential count) **dbo:number**

2. Lab name, if available (e.g., \Knowledge Graphs") **dbo:name**

3. Lab content, such as: **roboprof:courseContent – property of roboprof:Lab**

• LabMaterial **roboprof:LabMaterial**

4. A link (rdfs:seeAlso) to a web page with the lecture information, if available **rdfs:seeAlso**

Topics. Information about the topics that are covered in a course: **roboprof:Topic**

1. The topic's name as mentioned in the source material (e.g., \DL" might be mentioned in an outline, referring to \deep learning") **dbo:name**

2. Topics must have provenance information, that is, you must record where the topic was identified as being covered in the course (e.g., the (graduate) calendar, the course outline or a specific lecture) **roboprof:provenanceInfo**

3. A topic must be linked to DBpedia and/or Wikidata. For example, the topic \Knowledge graph" in a course description could be linked to https://dbpedia.org/resource/Knowledge graph. **rdfs:seeAlso**

Students. Information about students: **vivo:Student**

1. Name (first, last) **foaf:firstName**, **foaf:lastName**

2. ID Number **dbo:idNumber**

3. Email **vcard:hasEmail**

4. Completed courses with their grades. Note: you do not have to model courses-in-progress, but you do have to model the possibility that a student re-takes a course (e.g., to obtain a passing grade).

**roboprof:completedCourse**

5. Explicitly model the grade a student achieved in a course, taking into account that a student might re-take a course to achieved a different grade (both must be contained in your graph)

**roboprof:achievedGrade**

**roboprof:gradeInCourse**

**roboprof:gradeValue**

6. Competencies, defined as a set of topics, based on the courses a student has successfully completed (e.g., if a student passes COMP474, which includes the topic \Knowledge Graphs", then the student is considered competent in this topic). **roboprof:competency(no need to model)**

**Additional : roboprof:studiesAt**