

KNOWDIVE



KGE - Knowledge Graph Engineering

Digital University @ UniTn - Courses+Organization+Staff

KGE 2023 Project Proposal

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Project Objective

- This project considers the **Digital University** of the University of Trento as the environment in which data about courses, university organization and staff should be integrated by building a **Knowledge Graph (KG)**.
- Such kind of data can encode the information about *course name, course language, teachers, organizational units, staff, positions* and other related information supporting the digital university.
- The aim of the project is to create a KG which can provide information about the courses, organization and staff of UniTn. This objective will be achieved through the **iTelos methodology** which facilitates creation of a Digital University Knowledge Graph (KG) integrating data from different data sources.

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Purpose

The final KG can be used to provide a general purpose service helping the users (for example, enrolled/potential students, and/or research bodies) to find information about, for instance, the courses offered and the organizational structure pursued at UniTn. This purpose can be described in form of a user request as follows:

"A service which help the users to query and know about the different courses being taught at the University of Trento supported by its organizational structure."

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Data Resources

The potential data resources provided to achieve the project's objective are:

- **Open Data Trentino :**
<https://dati.trentino.it/group/cultura>
- **Courses @ UniTn :**
[UniTn Courses](#)
- **Organization @ UniTn :**
[UniTn Organizational Structure](#)
- **Staff @ UniTn :**
[UniTn Staff](#)

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Schema Resources

The potential schema resources provided to achieve the project's objective are:

- **VIVO (for modelling academics and research) :**
[VIVO](#)
- **AIISO (for modelling academic institution) :**
[AIISO](#)
- **FOAF (for modelling persons and their relations) :**
[FOAF](#)
- **schema.org (for modelling common concepts) :**
[schema.org](#)
- **DCAT2 (for modelling metadata) :**
[DCAT 2](#)



KDI Knowledge and Data Integration



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