

COURSE DETAIL

KNOWLEDGE GRAPHS

Country

United Kingdom - Scotland

Host Institution

University of Edinburgh

Program(s)

University of Edinburgh

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

169

UCEAP Course Suffix**UCEAP Official Title**

KNOWLEDGE GRAPHS

UCEAP Transcript Title

KNOWLEDGE GRAPHS

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course provides the theory and practice of knowledge graph construction, reasoning, and question answering technologies. The students analyze case studies to construct knowledge graphs and apply reasoning services on them. The course covers the following topics: knowledge graph foundation and standards; RDF (Resource Description Framework); OWL (Web Ontology Language); SPARQL (Query Language for RDF and OWL); knowledge graph construction, embeddings, and completion knowledge graph reasoning and querying; tableaux algorithm; tractable schema reasoning in EL; tractable query answering in DL-Lite; and semantic parsing.

Language(s) of Instruction

English

Host Institution Course Number

INFR11215

Host Institution Course Title

KNOWLEDGE GRAPHS

Host Institution Course Details

<http://www.drps.ed.ac.uk/23-24/dpt/cxinfr11215.htm?code=INFR11215>

Host Institution Campus

Host Institution Faculty

School of Informatics

Host Institution Degree

Host Institution Department

Course Last Reviewed

2023-2024

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