



KAMK • University
of Applied Sciences

Databases and data sources in IoT system

Course description

Databases and data sources in
IoT system
5 ECTS
Grading: pass/fail

This course introduces you to various data sources and databases. Relevant databases and SQL query language, document databases, time-series databases, data transfer formats, and database management systems are key issues.

The tasks of the course are compulsory, and they form a collection of work samples. This portfolio guidance will be provided at the start of the course. The underlying theme of the course is learning by doing.

Tools and operating environments:

- Jupyter Notebook (Python-programming)
- Anaconda Navigator (local installation)
- <https://notebooks.dclabra.fi> (SaaS, Software as a Service)
- MySQL Workbench (local installation)
- draw.io ja Visual Paradigm (local installation)
- MariaDB, InfluxDB, MongoDB (local docker installation)
- How to use open source data sources

Requirements:

Participants should have background in DevOps and Python programming.

