# School of Data Engineering and AI technologies

## Academic year 2026-2027

**Contact: incoming.exchange@turkuamk.fi**

## Autumn semester 2026 (end of August - mid December)

| **Data Engineering and AI *** | | | |
|---|---|---|---|
| **Course name + link to study guide** | **Course code** | **ECTS credits** | **Prerequisites / quota of students / weekly schedule etc.** |
| Innovation Project ** | TE00BL66 | 10 | max 5 students |
| Cloud Services | TT00CN73 | 5 | max 5 students |
| Deep Learning | TT00CN75 | 5 | max 5 students |
| DevOps | TT00CD85 | 5 | max 5 students |
| R&D Project | TT00DM62 | 10 | max 5 students |
| Reinforcement Learning | TT00DM63 | 5 | max 5 students |
| Professional Practice ** | 5000BM84 | 10 | |
| **Total** | | **50** | |

* Prerequisites: Fundamental skills in Mathematics, Computer Architecture and Programming. The semester courses are 3rd year ICT engineering (B.Eng.) courses. Deep Learning and Advanced topics in Data Engineering & AI require that you have skills in Machine Learning and Data Engineering. **30 credits need to be selected.** It is possible to join the semester only for the Autumn or Spring part, or for the full academic year. ECS network students / double degree students have priority to join the semester.

** Either during the Autumn or Spring semesters. If the student takes part in both semesters, the Innovation project should be completed during the Spring. The Professional Practice is a training period conducted within a research group, and its availability depends on suitable R&D projects and the student's competencies.

| **Health Technology *** | | | |
|---|---|---|---|
| **Course name + link to study guide** | **Course code** | **ECTS credits** | **Prerequisites / quota of students / weekly schedule etc.** |
| Innovation Project ** | TE00BL66 | 10 | max 5 students |
| Usability and User Interface Design | 5051257 | 5 | max 5 students |
| R&D Project | 5051267 | 5 | max 5 students |
| Introduction to Health Technology | 5051249 | 5 | max 5 students |
| Introduction to Data Engineering | TT00CN68 | 5 | max 5 students |
| Software Integration | TT00CR11 | 5 | max 5 students |
| Medical Device Design and Development | 5051256 | 5 | max 5 students |
| Professional Practice ** | 5000BM84 | 10 | |
| **Total** | | **50** | |

* Prerequisites: Fundamental skills in Mathematics, Computer Architecture and Programming. The semester courses are both 2nd and 3rd year ICT engineering (B.Eng.) courses. **30 credits need to be selected.** It is possible to join the semester only for the Autumn or Spring part, or for the full academic year. ECS network students / double degree students have priority to join the semester.

** Either during the Autumn or Spring semester. If the student takes part in both semesters, the Innovation project should be completed during the Spring. The Professional Practice is a training period conducted within a research group, and its availability depends on suitable R&D projects and the student's competencies.

## Spring semester 2027 (January - end of April)

| **Data Engineering and AI *** | | | |
|---|---|---|---|
| **Course name + link to study guide** | **Course code** | **ECTS credits** | **Prerequisites / quota of students / weekly schedule etc.** |
| Innovation Project ** | TE00BL66 | 10 | max 5 students |
| Data Engineering Project | TT00CN76 | 5 | max 5 students |
| Applications of AI | TT00CN77 | 5 | max 5 students |
| Big Data Engineering | TT00CN70 | 5 | max 5 students |
| Data Analytics and Machine Learning | TT00CO52 | 5 | max 5 students |
| Advanced topics in Data Engineering & AI | TT00CN74 | 5 | max 5 students |
| Professional Practice ** | 5000BM84 | 10 | |
| **Total** | | **50** | |

* Prerequisites: Fundamental skills in Mathematics, Computer Architecture and Programming. The semester courses are both 2nd and 3rd year ICT engineering (B.Eng.) courses. **30 credits need to be selected**. It is possible to join the semester only for the Autumn or Spring part, or for the full academic year. ECS network students / double degree students have priority to join the semester.

** Either during the Autumn or Spring semesters. If the student takes part in both semesters, the Innovation project should be completed during the Spring. The Professional Practice is a training period conducted within a research group, and its availability depends on suitable R&D projects and the student's competencies.

| **Health Technology *** | | | |
|---|---|---|---|
| **Course name + link to study guide** | **Course code** | **ECTS credits** | **Prerequisites / quota of students / weekly schedule etc.** |
| Innovation Project ** | TE00BL66 | 10 | max 5 students |
| Big Data Engineering | TT00CN70 | 5 | max 5 students |
| Artificial Intelligence Applications | 5051253 | 5 | max 5 students |
| Laboratory Works in Health Technology | 5000BL71 | 5 | max 5 students |
| Data Analytics and Machine Learning | TT00CO52 | 5 | max 5 students |
| Information System Design Process | 5051250 | 5 | max 5 students |
| Applied Inclusive and Accessible AI | TT00DN06 | 5 | max 5 students |
| Professional Practice ** | 5000BM84 | 10 | |
| **Total** | | **50** | |

* Prerequisites: Fundamental skills in Mathematics, Computer Architecture and Programming. The semester courses are both 2nd and 3rd year ICT engineering (B.Eng.) courses. **30 credits need to be selected.** It is possible to join the semester only for the Autumn or Spring part, or for the full academic year. ECS network students / double degree students have priority to join the semester.

** Either during the Autumn or Spring semesters. If the student takes part in both semesters, the Innovation project should be completed during the Spring. The Professional Practice is a training period conducted within a research group, and its availability depends on suitable R&D projects and the student's competencies.