



Information Technology exchange course offer 2024/2025

Exchange students can select courses from any IT study group. The 1st year courses are suitable if the student does not have background knowledge on the topic. The 2nd, 3rd and 4th year courses are more advanced so some background knowledge on the topic may be required.

| | Autumn 2024 | ECTS | Code | Spring 2025 | ECTS | Code |
|--|---|-------------|---------------|---|-------------|----------------------------|
| 4th year studies | Software development project | 5 | IT00EC05-3002 | | | |
| | Big data and visualization | 5 | IT00EC06-3002 | | | |
| | Digital image processing | 5 | IT00EC07-3002 | | | |
| 3rd year studies | Enterprise service management (online) | 5 | IT00EB95-3003 | Service deployment project | 5 | IT00EC02-3003 |
| | Design patterns and object-oriented techniques | 5 | IT00EC00-3003 | Software testing and quality assurance | 5 | IT00EC03-3002 |
| | Applying IoT | 5 | IT00EB96-3003 | Probability and information theory | 5 | IT00EC04-3002 |
| | ICT business management | 5 | IT00EB98-3003 | | | |
| | Research and development skills | 5 | IT00EB99-3003 | | | |
| | Information and network security | 5 | IT00EB97-3003 | | | |
| 2nd year studies | Python programming and data processing | 5 | IT00EB85-3004 | Discrete mathematics 2 | 5 | TK00BK51-3021 |
| | IoT electronics and measurements | 5 | IT00EB86-3004 | Scaling networks (CCNA3) | 5 | IT00EB92-3004 |
| | Introduction to networks (CCNA1) | 5 | IT00EB87-3004 | Advanced networking | 5 | IT00EB93-3004 |
| | Routing and switching essentials (CCNA2) | 5 | IT00EB88-3004 | IoT technologies | 5 | IT00EB94-3004 |
| | Data center environments | 5 | IT00EB89-3004 | Full stack programming | 5 | IT00EB90-3004 |
| | | | | Databases | 5 | IT00EB91-3007 |
| 1st year studies | Discrete mathematics 1 | 5 | TK00BK40-3038 | IT physics | 5 | IT00EB82-3007 |
| | Computer and ICT environments | 5 | IT00EB80-3009 | Calculus | 5 | Databases IT00CO78-3013 |
| | Security fundamentals | 5 | IT00CO77-3008 | Operating systems and server environments | 5 | IT00EB83-3005 |



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| | Introduction to programming | 5 | | Object-oriented programming | 5 | IT00EB84-3008 |
| | Finnish 1 (contact lectures) | 5 | KY00DS49-3051 | Networking fundamentals | 5 | IT00CO71-3009 |
| | Finnish 1 (online) | 5 | KY00DS49-3055 | | | |

In addition, **Using wellbeing skills to promote studying ability (online), 2 ECTS Credits** is available in autumn term 2024. The code of the course is VV00EJ27-3019. The syllabus if available at <https://opinto-opas.xamk.fi/offerings/51331/48611?lang=en>

Please note that the content of both Finnish -courses is the same. You can choose either one.

You can check the syllabuses at the Study Guide <https://opinto-opas.xamk.fi/28/en/42/123044> and the timetable at Lukkarikone which allows you to view and plan the schedule_ <https://lukkari.kone.xamk.fi/#/schedule>.

Xamk reserves the right to make changes in the detail of the curriculum. The changes might deal with the teachers, titles, contents, duration, depth, and timing of the courses. The purpose of the changes would be to guarantee the most suitable and flexible study schedule for the Students.