

## Information Technology double degree course offer 2024/2025

Double degree students should select courses from the 2<sup>nd</sup> – 4<sup>th</sup> year IT study group, according to the personal study plan made in the beginning of studies. The general requirement for the double degree at Xamk is a minimum of 45 credits of courses, 30 credits of practical training and 15 credits for bachelor's thesis.

	<b>Autumn 2024</b>	<b>ECTS</b>	<b>Code</b>	<b>Spring 2025</b>	<b>ECTS</b>	<b>Code</b>
<b>4<sup>th</sup> year studies</b>	Software development project	5	IT00EC05-3002			
	Big data and visualization	5	IT00EC06-3002			
	Digital image processing	5	IT00EC07-3002			
<b>3<sup>rd</sup> year studies</b>	Enterprise service management <b>(online)</b>	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			
<b>2<sup>nd</sup> year studies</b>	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
	Finnish 1 <b>(compulsory for double degree)</b>	5	KY00DS49-3051	Finnish 2 (optional)	5	
	Bachelor's thesis	5		Bachelor's thesis	10	



South-Eastern Finland  
University of Applied Sciences

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>

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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://lukkarikone.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.