

Computer Applications - MODULE MAP 2025-2026

GROUP	PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5 SUMMER STUDIES
BBCAP25A3	Core competence Introduction to IT Studies Orientation to Studies CA00EE56-3003 Basics of Programming CA00EE58-3003 Operating Systems CA00EE60-3003 Finnish 1 CA00EE62-3003	Core competence Introduction to Software Development Databases CA00EE64-3003 Object-Oriented Programming CA00EE66-3003 Basics of Data Analysis CA00EE68-3003 Computer Networks and Security CA00EE70-3003 Finnish 2 CA00EE72-3003	Core competence Web Development Building a Static Website CA00EE74-3003 Web Programming CA00EE76-3003 Content Management Systems CA00EE78-3003 Finnish 3 CA00EE80-3003	Core competence Software Development Finnish 4 CA00EE82-3003 Applied Application Project TK00EC60-3003 Software Development Tools TK00EC62-3003 Web Services TK00EC64-3003	Profiling competence Optional studies 15 ECTS (possibility to complete)
				Core competence Cloud Foundations Finnish 4 CA00EE82-3003 Cloud Services TK00EC66-3003 Cloud-Based Business Solutions TK00EC68-3003 Agile Business Solution Development TK00EC70-3003	
BBCAP24A3	Core competence Customer Projects Data Processing with Python CA00EE96-3002 Software Testing CA00EE98-3002 Design Factory Project TK00EC76-3002 English Communication in Customer Projects CA00EX53-3001	Core competence Business Analytics Predictive Analytics with Python CA00EF04-3002 Foundations of Data Engineering CA00EF06-3002 Digital and Social Media Analytics CA00EF08-3002	Core competence Automating Business Processes Software Robotics and Automation CA00EF10-3002 Software Design CA00EF12-3002 Minithesis CA00EF14-3002	Profiling competence Backend Web Development Web Accessibility TK00EC94-3002 JavaScript TK00EC96-3002 Web Framework Project TK00EC98-3002	Profiling competence Optional studies 15 ECTS (possibility to complete)
				Profiling competence Data Science Mathematics for Data Science with Python TK00FR36-3001 Applied Machine Learning TK00FR37-3001 Big Data Analytics TK00FR38-3001	
				Profiling competence Delivering Software Products Software Delivery Models & Methods TK00ED18-3002 Web Servers TK00ED20-3002 Containerization TK00ED22-3002 Software Delivery Tools TK00ED24-3002	Core competence Work placement 30 ECTS (possibility to complete)

GROUP	PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5 SUMMER STUDIES
BBCAP23A3	Profiling competence Mobile Programming Virtualization Techniques for Software Developers TK00ED00-3001 Cross-platform Development TK00ED02-3001 Mobile Programming Project TK00ED04-3001	Profiling competence Game Engine Development 3D Modelling TK00ED32-3001 Game Programming TK00EX51-3002 Game Development Project TK00EX52-3002	Core competence Thesis 15 ECTS	Profiling competence Optional studies 15 ECTS (if not completed before)	Core competence Work placement 30 ECTS (possibility to complete)
	Profiling competence Machine Learning & AI Solutions in Pattern Recognition TK00ED12-3001 Artificial Intelligence TK00ED14-3001 Development of Artificial Intelligence Applications TK00ED16-3001	Profiling competence Cybersecurity Cybersecurity TK00FR42-3001 Cyber Attacks and Defense Methods TK00FR43-3001 Penetration Tests, Audits and Red Teaming TK00FR44-3001			
	Profiling competence Cloud Computing Cloud Computing TK00ED26-3001 Multicloud Management TK00ED28-3001 Cybersecurity in Cloud Environments TK00ED30-3001	Profiling competence ICT Project ICT Project and Product Planning TK00EX49-3002 ICT Project and Product Implementation TK00EX50-3002			
BBCAP22A3	Core competence Work placement 30 ECTS (if not completed before)	Core competence Work placement 30 ECTS (if not completed before)			