

Code	Name	Credits
	Introduction to IT Studies	15 op
CA00EE56-3001	Orientation to Studies	3 op
CA00EE58-3001	Basics of Programming	5 op
CA00EE60-3001	Operating Systems	5 op
CA00EE62-3001	Finnish 1	2 op
	Introduction to Software Development	15 op
CA00EE64-3001	Databases	3 op
CA00EE66-3001	Object-Oriented Programming	4 op
CA00EE68-3001	Basics of Data Analysis	3 op
CA00EE70-3001	Computer Networks and Security	3 op
CA00EE72-3001	Finnish 2	2 op
	Web Development	15 op
CA00EE74-3001	Building a Static Website	4 op
CA00EE76-3001	Web Programming	5 op
CA00EE78-3001	Content Management Systems	3 op
CA00EE80-3001	Finnish 3	3 op
	Valinnaiset ydinaineopinnot	
CA00EE82-3001	Finnish 4	3 op
	Software Development	12 op
TK00EC60-3001	Applied Application Project	4 op
TK00EC62-3001	Software Development Tools	3 op
TK00EC64-3001	Web Services	5 op
	Cloud Foundations	12 op
TK00EC66-3001	Cloud Services	3 op
TK00EC68-3001	Cloud-Based Business Solutions	5 op
TK00EC70-3001	Agile Business Solution Development	4 op
	Customer Projects	15 op
CA00DL53-3002	Data Processing with Python	4 op
CA00DL54-3002	Software Testing	3 op
CA00DJ36-3003	Design Factory Project	5 op
CA00DL55-3002	Communication in Customer Projects	3 op
	Business Analytics	15 op
CA00DL56-3002	Predictive Analytics with Python	5 op
CA00DL57-3002	Foundations of Data Engineering	5 op
CA00DL58-3002	Digital and Social Media Analytics	5 op
	Automating Business Processes	15 op
CA00DL59-3002	Software Robotics and Automation	6 op
CA00DL60-3002	Software Design	4 op
CA00DL61-3002	Minithesis	5 op
	Delivering Software Products	15 op
TK00DJ32-3002	Software Delivery Models & Methods	3 op
TK00DJ30-3002	Web Servers	5 op
TK00DJ29-3002	Containerization	3 op
TK00DJ31-3002	Software Delivery Tools	4 op
	Backend web development	15 op
TK00DH19-3002	Web Accessibility	3 op
TK00DH20-3002	JavaScript	3 op
TK00DH21-3002	Web Framework Project	9 op

	Data Science	15 op
TK00DH09-3002	Mathematics for Data Science with Python	6 op
TK00DH10-3002	Big Data Technologies	3 op
TK00DH11-3002	Applied Machine Learning	6 op
	Cloud Computing	15 op
TK00DJ26-3001	Cloud Computing	8 op
TK00DJ27-3001	Multicloud Management	3 op
TK00DJ28-3001	Cybersecurity in Cloud Environments	4 op
	Mobile programming	15 op
TK00DH16-3001	Virtualization Techniques for Software Developers	4 op
TK00DH17-3001	Cross-platform Development	5 op
TK00DH18-3001	Mobile Programming Project	6 op
	Machine Learning and AI	15 op
TK00DH12-3001	Solutions for Pattern Recognition	5 op
TK00DH14-3001	Artificial Intelligence	5 op
TK00DH13-3001	Development of Artificial Intelligence Applications	5 op
	Game Engine Development	
TK00DJ33-3001	3D Modelling	3 op
TK00DJ34-3001	Game Programming	6 op
TK00DJ35-3001	Game Development Project	6 op
	ICT Project	15 op
TK00DH22-3001	ICT Project Implementation	8 op
TK00DH23-3001	ICT Project Specification and Management	4 op
TK00DH24-3001	Communication in ICT Project	3 op