

Code	Name	Credits
<b>Core Competence</b>		
<b>Working in Information Society</b>		15 cr
BB00DI31	Programming and Information Network Basics	5 cr
VV00EH16	Sustainable Development.now	2 cr
KM00CV13	Geometry and Linear Algebra	3 cr
BB00EJ63	Introduction to Communication	2 cr
KM00DE52	Finnish 1	3 cr
<b>Digitalization in Circular Economy</b>		15 cr
BB00DI35	Microcontrollers	3 cr
BB00EN67	Climate.now	2 cr
BB00DI34	Digital Services	2 cr
KM00CV11	Algebra	3 cr
BB00DI36	Professional English 1	3 cr
KM00DE53	Finnish 2	2 cr
<b>Data in Circular Economy</b>		15 cr
BB00DI38	Databases	2 cr
CA00EM44	Python for Data Science	5 cr
BB00EN69	Value Chains in Circular Economy	3 cr
BB00DI41	Professional English 2	3 cr
KM00DE54	Finnish 3	2 cr
<b>Data Analytics</b>		15 cr
BB00EJ66	DF Data-Driven Decision Making	3 cr
BB00EJ67	DF Data Analytics Tools	2 cr
BB00EJ68	DF Quantitative Reasoning for Data Analytics	3 cr
BB00DI43	DF Project Work	4 cr
KM00DE55	Finnish 4	3 cr
<b>Circular Economy</b>		15 cr
BB00DX01	Circular Economy Principles	6 cr
LT00DJ78	Design Business Ideas to Circular Business	4 cr
BB00DX02	Innovation Methods	3 cr
BB00DI46	Project Management	2 cr
<b>IoT - Internet of Things</b>		15 cr
BB00EN70	Basics of IoT	3 cr
BB00EJ71	IoT Project	4 cr
BB00EJ69	Basics of 3D Modelling and 3D Printing	3 cr
TB00DI26	DF Design Thinking	2 cr
KK00EK67	Sustainable Product Development Project	3 cr
<b>Smart Sensors</b>		15 cr
BB00DX06	Smart Systems and Sensors	5 cr
BB00EJ73	Sensor Systems Project	2 cr
BB00DI54	Electricity and Magnetism	3 cr
KM00CV61	Differential Calculus	2 cr
BB00DX05	Professional Communication	3 cr
<b>Cloud Services</b>		15 cr
BB00DI55	Principles of Cloud Services	2 cr
BB00DI57	User Interface Design and Usability	3 cr
BB00DX08	Cloud Services Project	5 cr
BB00DI58	Applied Physics	3 cr

KM00CV62	Integral Calculus	2 cr
	<b>Work Placement</b>	30 cr
BB00DM36	Work Placement	30 cr
<b>Profiling Competence</b>		
	<b>3D Modelling and Printing</b>	15 cr
BB00DX14	3D Modelling and Printing	15 cr
	<b>Machine Learning &amp; AI</b>	15 cr
TK00ED12	Solutions in Pattern Recognition	5 cr
TK00ED14	Artificial Intelligence	5 cr
TK00ED16	Development of Artificial Intelligence Applications	5 cr
	<b>Management and Responsible Procurement</b>	15 cr
TU00DQ32	Team Work Management and Finance	4 cr
TU00DQ33	Value Driven Procurement	4 cr
TU00DQ34	Lean as the Cornerstone of Efficiency	4 cr
TB00DQ46	Management and Responsible Procurement Project	3 cr
	<b>Global Sustainability</b>	15 cr
KK00EK79	Cross-cultural Communication	5 cr
KK00EK80	Sustainable Society and Global Economy	5 cr
KK00EK81	Creating Sustainable Solutions	5 cr
	<b>Development Project</b>	15 cr
TB00DC70	Development Project	15 cr
	<b>Data Science</b>	15 cr
TK00ED06	Mathematics for Data Science with Python	6 cr
TK00ED08	Big Data Technologies	3 cr
TK00ED10	Applied Machine Learning	6 cr