

Information and Communication Technology, Circular Economy - MODULE MAP 2024-2025

GROUP	PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5 SUMMER STUDIES
BECEP24A2	<p>Core competence Working in Information Society BB00EW37 Orientation BB00EO44 Basics of Programming VV00EO46 Sustainable Development.Now KM00EO48 Geometry and Linear Algebra BB00EO50 Introduction to Communication KM00EI34 Finnish 1</p>	<p>Core competence Digitalization in Circular Economy BB00EO54 Microcontrollers BB00EW38 Introduction to Information Networks BB00EO58 Digital Services KM00EO60 Algebra KM00EI27 Technical English 1 KM00EI35 Finnish 2</p>	<p>Core competence Data in Circular Economy BB00EO66 Databases CA00EO68 Python for Data Science BB00EO70 Circular Economy Value Chains KM00EI28 Technical English 2 KM00EI36 Finnish 3</p>	<p>Core competence Data Analytics BB00EO76 DF Data-based Decision Making BB00EO78 DF Data Analytics Tools BB00EO80 DF Quantitative Reasoning for Data Analytics BB00EO82 DF Data Analytics Project KM00EI37 Finnish 4</p>	<p>Core competence Work Placement</p> <p>Profiling competence Optional studies 15 cr</p> <p>Profiling competence cSchool ICT Project</p>
BECEP23A2	<p>Core competence Circular Economy BB00DX01 Circular Economy Principles LT00DJ78 Design Business Ideas to Circular Business TB00DI26 DF Design Thinking BB00DI46 Project Management BB00DX02 Innovation Methods</p>	<p>Core competence IoT - Internet of Things BB00EN70 Basics of IoT BB00EJ71 IoT Project BB00EJ69 Basics of 3D Modelling and 3D Printing</p>	<p>Core competence Smart Sensors BB00DX06 Smart Systems and Sensors BB00EJ73 Sensor Systems Project BB00DI54 Electricity and Magnetism BB00DX05 Professional Communication KM00CV61 Differential Calculus</p>	<p>Core competence Cloud Services BB00DI55 Principles of Cloud Services BB00DI57 User Interface Design and Usability BB00DX08 Cloud Services Project BB00DI58 Applied Physics KM00CV62 Integral Calculus</p>	
BECEP22A2	<p>Profiling competence 3D Modelling and Printing BB00DX14 3D Modelling and Printing</p> <p>Profiling competence Machine Learning & AI* TK00DH12 Solutions in Pattern Recognition TK00DH13 Development of Artificial Intelligence Applications TK00DH14 Artificial Intelligence</p> <p>Profiling competence Management and Responsible Procurement BB00DX09 Team Work Management and Finance BB00DX10 Value Driven Procurement BB00DX11 Lean as the Cornerstone of Efficiency BB00DX12 Management and Responsible Procurement Project</p>			<p>Profiling competence Development Project BB00DI63 Development Project</p> <p>Profiling competence Data Science* TK00DH09 Mathematics for Data Science with Python TK00DH10 Big Data Technologies TK00DH11 Applied Machine Learning</p>	

GROUP	PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5 SUMMER STUDIES
BEBEP22A2	Profiling competence Global Sustainability KK00EK79 Cross-Cultural Communication KK00EK80 Sustainable Society and Global Economy KK00EK81 Creating Sustainable Solutions				
BEBEP21A2	Profiling competence Optional studies 15 cr				
	Core competence Work placement				
	Final thesis 15 cr				