Metropolia UAS Information and ( Multiform Studies	Communication Technology	extent of credits	Mathematics and natural sciences skills	Hardware skills	Network engineering skills	Software skills	ICT business skills	ICT application skills	Communication skills	Learning competence	Ethical competence	Working community competence	Innovation competence	Multicultural competence	Technological competence
1st year of study	Discrete Mathematics	5	X	_		0)			)	×	ш	>	_	_	
	Statistics	5	Х							Х					
	Special Course in Mathematics	5	Х							Х					
	Physical Effects	5	Х							Х					
	Special Course in Physics	5	Х							Х					
	Engineering Finnish and Communication Skills	5							Х	Х		Χ			
	Engineering English and Communication Skills	5							Х	Х					
	Engineering Swedish	5							Х	Χ		Χ		Х	
	Finnish as a Second Language: Finnish at Work	5							Х	Х		Χ		Х	
	Introduction to Programming	5			Х	Χ				Χ					
	SQL and Relation Databases	5			Х	Х				Х					
	Industrial Business	5					Χ			Χ					
2nd - 4th year of	Java Programming 1	5				Χ				Χ					
study	Java Programming 2	5				Χ				Χ					
	Datastructures and Algorithms	5				Х				Χ					
	Basics of Virtualization and Cloud Computing	5			Х	Χ	Χ	Χ		Х					Х
	Amazon Cloud Foundation	5		Х		Х	Х			Х					Х
	Vmware vSphere ICM	5		X		Х				X					X
	Windows Server and HyperV	5		Х		Х				Х					Х
	Microsoft Azure	5		Х	Х	X				X					X
	Amazon Web Services	5			Х	X				X					Х
	Special Course in Information and Communication Optional Professional Studies	5 <i>4</i> 5				X				X			Х		
	Multidisciplinary Innovation Project	10	v	v	v	X	v	v	V	X	v	V	V		
	Work Placement 1	15	X	X	X	X	X	X	X	X	X	X	X	X	X
	Work Placement 2	15	X	X	X	X	X	X	X	X	X	X	X	X	X
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