

Code	Name	Credits
	<b>Introduction to Engineering Studies</b>	15 cr
BE00DL09-3003	Professional Growth	3 cr
BE00DL06-3005	Introduction to Technical Physics	3 cr
BE00DL07-3003	Basics of Mechanical Drawing	3 cr
KM00CV13-3036	Geometry and Linear Algebra	3 cr
KM00EI34-3001	Finnish 1	3 cr
	<b>Mechanics</b>	15 cr
BE00DK26-3003	Statics	4 cr
BE00DK30-3003	Mechanics Workshops	2 cr
BE00EB47-3001	Hydraulics	2 cr
KM00CV11-3049	Algebra	3 cr
VV00EH16-3001	Sustainable Development.Now	2 cr
KM00EI35-3001	Finnish 2	2 cr
	<b>Manufacturing</b>	15 cr
BE00DK57-3003	Basics of Strength Theory	3 cr
BE00DK58-3003	Material Engineering	4 cr
KM00CV61-3031	Differential Calculus	2 cr
BE00DK59-3003	Manufacturing Methods	4 cr
KM00EI36-3001	Finnish 3	2 cr
	<b>Design of a Beam Structure</b>	15 cr
BE00DK60-3003	Strength Theory	2 cr
BE00DK61-3003	Welding Engineering	3 cr
KM00CV62-3030	Integral Calculus	2 cr
BE00DK62-3003	3D Design	5 cr
KM00EI37-3001	Finnish 4	3 cr
	<b>Machine Design</b>	15 cr
BE00DK63-3002	Strength Theory in Design	3 cr
BE00DK64-3002	Thermodynamics	3 cr
BE00DK65-3002	Machining	4 cr
BE00DK66-3002	Dynamics	3 cr
KM00DE59-3006	Technical English 1	2 cr
	<b>Machine Elements</b>	15 cr
BE00DK67-3002	Selection of Machine Elements	6 cr
BE00DK68-3002	Tolerances and Fits	3 cr
BE00DK69-3002	Statistical Mathematics and Reliability Engineering	3 cr
BE00DK70-3002	Electrical Engineering	3 cr
	<b>Sheet Metal Structures</b>	15 cr
BE00DK74-3002	Design of Sheet Metal Products	6 cr
BE00DK75-3002	Sheet Metal Work	3 cr
BE00DM43-3003	Coatings	3 cr
KM00DE60-3004	Technical English 2	3 cr
	<b>Product Development</b>	15 cr
BE00DK76-3002	Control Systems	3 cr
BE00DK77-3002	Product Design	9 cr
BE00DK80-3002	Entrepreneurship	3 cr
	<b>Structural Analysis</b>	15 cr
BE00DK83-3001	Finite Element Methods	6 cr
BE00DK84-3001	Measuring Strength of Materials	3 cr

BE00DK85-3001	Structural Optimization	3 cr
BE00DK86-3001	Numerical Methods	3 cr
	<b>Manufacturing Automation</b>	15 cr
BE00DK87-3001	NC Programming	6 cr
BE00DK88-3001	Robotics	6 cr
BE00DK89-3001	New Manufacturing Methods	3 cr
	<b>Robotics</b>	15 cr
BE00DL02-3001	Collaborative Robotics	3 cr
BE00DL05-3001	Robot Programming	3 cr
BE00DL00-3001	Robot Kinematics	3 cr
BE00DL01-3001	Factory Simulation	3 cr
BE00DL03-3001	Robotics Project	3 cr
	<b>Design of Industrial Appliances</b>	15 cr
BE00DK90-3001	Product Data Management	3 cr
BE00DK91-3001	Project Management	3 cr
BE00DK94-3001	Design Project	9 cr