

Autumn 1

Autumn 2

Spring 1

Spring 2

Academic year 2016 – 2017  
modules in  
Mechanical Engineering

BEMPP16A6	<p><b>Orientation to engineering studies</b>  <u>Professional growth</u>                  Introduction to technical mathematics                  Introduction to technical physics                  Work safety and rules of working life                  Organisational communication</p>	<p><b>Mechanics</b>  <u>Statics</u>                  Kinetics                  Mechanics workshops                  Basics of mechanical drawing                  Mathematical tools for mechanics                  Reporting in English</p>	<p><b>Manufacturing</b>  <u>Basics of strength theory</u>                  Material engineering                  Chemistry for material engineering                  Manufacturing methods                  Swedish / Practical Finnish</p>	<p><b>Design of a Beam Structure</b>  <u>Strength theory in design</u>                  Dynamics                  Differential calculus                  Technical drawing</p>
	<p><b>Engineering Design 2</b>  <u>Technical Drawing and Modelling</u>                  Technical differential and integral calculus                  Strength of Materials 2                  Technical Mathematical Statistic</p>	<p><b>Machine Automation</b>  <u>Electrical Engineering</u>                  Sensors and Industrial Controls                  Working English</p>	<p><b>Design and Calculation of Machine Elements</b>  <u>Machine Elements 1</u>                  Dynamics 1                  Engineering Materials                  Reporting in Finnish</p>	<p><b>Dynamics and Thermodynamics</b>  <u>Thermodynamics</u>                  Mathematics for Mechanical Engineering                  Dyna in mics 2</p>
	<p><b>Manufacturing</b>  <u>Machining</u>                  Sheet metal works                  Welding                  Heat treatments</p>	<p><b>Applied Mechanics</b>  <u>Mechanical engineering measurements</u>                  Machine dynamics                  Numerical analysis                  Finite element methods</p>	<p><b>Workshop Automation</b>  <u>Robotic systems</u>                  NC-technology                  Computer-aided NC programming                  Production management</p>	<p><b>Mechanical Engineering</b>  <u>Strength of materials 3</u>                  Machine elements 2                  Advanced hydraulics                  Machine design</p>

Core competence

Profiling