

MECHANICAL AND SUSTAINABLE ENGINEERING 2025->		Code	240 cr																	
General education studies (15 cr)			Year 1				Year 2				Year 3				Year 4					
Education in a Digital and Sustainable Nordic Society (15 cr)																				
	Technology and Learning	AS-1-044	5																	
	Teamwork and Innovation	AS-1-045		5																
	Ethical and Sustainable Societal Development	AS-1-046			5															
Professional studies (135 cr)			Year 1				Year 2				Year 3				Year 4					
Basic studies in Technology (30 cr)																				
	Linear Algebra	PM-2-026		5																
	Differential calculus	PM-2-025				5														
	Integral calculus	PM-2-024					5													
	Engineering Chemistry	GT-2-013	5																	
	Engineering Physics	GT-2-014				5														
	Introduction to programming and automation	GT-2-024	2,5	2,5																
Sustainable Modelling (15 cr)																				
	Environment and Resources	GT-2-015				5														
	Sustainable Energy and Materials	GT-2-019					5													
	Life Cycle Assessment	GT-2-020						5												
Technical Modelling (15 cr)																				
	Technical Drawing	PM-2-030		5																
	Computer Aided Design	PM-2-031			5															
	Programming	GT-2-021							5											
Materials (30 cr)																				
	Materials Chemistry	PM-2-032						5												
	Manufacturing and Processing	PM-2-034					2,5	2,5												
	Material properties	PM-2-033							5											
	Composites	PM-2-035								2,5	2,5									
	Heat Transfer	PM-1-006								5										
	Material Selection	PM-2-041											5							
Engineering Design (30 cr)																				
	Statics	PM-2-036						5												
	Mechanics of Materials	IM-2-042							5											
	Digital Manufacturing	PM-2-038									5									
	Finite Element Method	PM-2-003												5						
	Dynamics	PM-2-037										5								
	Computer Aided Engineering	PM-2-039											2,5	2,5						
Professional Communication (15 cr)																				
	English Academic Writing	SP-EN-002			2,5	2,5														
	Swedish for Beginners 1	SP-SV-002					5													
	Swedish for Beginners 2	SP-SV-003						5												
Practical Training (30 cr)			Year 1				Year 2				Year 3				Year 4					
Practical Training (30 cr)																				
	Practical Training 1	PM-2-004															15			
	Practical Training 2	PM-2-005															15			
Development Studies (30 cr)			Year 1				Year 2				Year 3				Year 4					
Circular Economy (15 cr)																				
	Circular Economy Principles	GT-3-002						5												
	Circular Economy Sectors	GT-3-003							5											
	Circular Economy Indicators	GT-3-004								5										
Plastic Technology (15 cr)																				
	Fluid Mechanics	MP-2-051									5									
	Mould Design	PT-2-007										5								
	Processing Methods and Optimization	PM-3-019												5						
Advanced Materials Technology (15 cr)																				
	Sustainable Product Design	PM-3-028										5								
	Viscoelasticity	PM-3-023										5								
	Material Analysis	MP-2-046										5								
Project (15 cr)																				
	Project	PM-2-007										3,75	3,75	3,75	3,75					
Finnish for Beginners (15 cr)																				
	Finnish for Beginners I	SP-3-016	5																	
	Finnish for Beginners II	SP-3-010		5																
	Finnish for Beginners III	SP-3-014			5															
Active and Critical Citizenship																				
Additional development studies																				
	Introduction to Engineering Mathematics	GT-3-005	5																	
Research Studies (30 cr)			Year 1				Year 2				Year 3				Year 4					
Thesis and Methods (30 cr)																				
	Fundamentals of Research Methodology for Engineers	MET-2-004											5							
	Applied Methodology for Engineers	MET-2-005													5					
	Advanced Research Methodology for Engineers	MET-2-006													5					
	Thesis for Bachelor Degree in Technology, Bachelor of E LP-324000															15				
TOTAL CREDITS EACH PERIOD			15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
TOTAL CREDITS EACH ACADEMIC YEAR			240 sp		60				60				60				60			