

Academic Year Overview 2023/2024

Department: Product Development
 Programme: **Materials and Manufacturing (master) 120 hp**
 Campus: **Jönköping**
 Language: **English**

Year 1 (Start Autumn 2023) Programme code: TAMM1

Semester 1 (2023-08-21—2024-01-14)																				Semester 2 (2024-01-15---2024-06-02)																				
34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22
<i>Materials and Manufacturing Technology, 7,5 credits</i>										<i>Chemical Thermodynamics, 7,5 credits</i>										<i>Numerical Analysis, 7,5 credits</i>						<i>Continuum Mechanics, 7,5 credits</i>														
<i>Elective course 7,5 credits Integrated Product Realization, 7,5 credits</i>										<i>Polymer and Composite Technology, 7,5 credits</i>										<i>Surface Technology, 7,5 credits</i>						<i>Microstructural Engineering, 7,5 credits</i>														
<i>Multivariable Calculus, 7,5 credits</i>																																								

Year 2 (Start Autumn 2022) Programme code: TAMM1

Semester 3 (2023-08-21—2024-01-14)																				Semester 3 (2024-01-15---2024-06-02)																				
34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22
<i>Elective courses: FEA and Optimization Driven Design, 7,5 credits</i>										<i>Elective courses: Manufacturing Process Simulations, 7,5 credits</i>										<i>Final Project Work in Product Development, 30 credits</i>																				
<i>Applications of Computational Fluid Dynamics and Heat Transfer, 7,5 credits</i>										<i>Numerical Analysis and Optimization, 7,5 credits</i>																														
										<i>Track - Component Realization Advanced CAD, 7,5 credits</i>																														
										<i>Integrated Product and Production Development, 7,5 credits</i>																														
										<i>Industrial Placement Course in Materials and Manufacturing, 7,5 credits</i>																														
Track - Foundry Technology																																								
<i>Solidification Processing, 3 credits</i>					<i>Liquid Metal Processing - Aluminum Alloys, 3 credits</i>										<i>Moulding Materials in Foundry Technology, 3 credits</i>					<i>Environmental Impact Assessment of Castings, 3 credits</i>																				
<i>Component Casting, 6 credits</i>															<i>Modelling and Simulation om Casting, 6 credits</i>																									
					<i>Analysis of Casting Defects, 3 credits</i>																																			

	<i>Liquid Metal Processing - Ferrous Alloys, 3 credits</i>		
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