

Academic Year Overview 2022/2023

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

Year 1 (Start Autumn 2022) Programme code: TAMM1

Semester 1 (2022-08-22—2023-01-15)														Semester 2 (2023-01-16—2023-06-04)																										
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 2021) Programme code: TAMM1

Semester 3 (2022-08-22—2023-01-15)														Semester 3 (2023-01-16—2023-06-04)																										
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>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>Analysis of Casting Defects, 3 credits</i>								<i>Modelling and Simulation om Casting, 6 credits</i>																										
								<i>Liquid Metal Processing – Ferrous Alloys, 3 credits</i>																																