

# Master's programme in Nanoscience

## Study Year 1 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	20/21	20/21	20/21	20/21
								sp1	sp2	sp3	sp4
<a href="#">FFFF10</a>	7.5	G2	X	E	Processing and Device Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">FFFN30</a>	7.5	A	X	E1	Semiconductor Physics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">KASF15</a>	7.5	G2	X	E	Materials Analysis at the Nanoscale		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		
<a href="#">FFFN35</a>	7.5	A	X	E	The Physics of Low-dimensional Structures and Quantum Devices		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		

## Elective Courses - MNAV

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
									sp1	sp2	sp3	sp4	
<a href="#">EAFN15</a>	7.5	A	1	1	X	E	Crystal Growth and Semiconductor Epitaxy	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				3	
<a href="#">EAFN05</a>	7.5	A	1	1	X	E	Light - Matter Interaction	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				3	
<a href="#">EITP05</a>	7.5	A	1	1	X	E1	Nanoelectronics	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				3	
<a href="#">FFFN25</a>	7.5	A	1	1	X	E	Optoelectronics and Optical Communication	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				3	
<a href="#">ETIA10</a>	7.5	G1	1	1	X	E	Patent and Intellectual Property Rights	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				3	
<a href="#">FFFN20</a>	15	A	1	1	X	E	Experimental Biophysics	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				3	4
<a href="#">EITP25</a>	7.5	A	1	1	X	E	Memory Technology for Machine Learning	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>					4

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links					
									sp1	sp2	sp3	sp4		
<a href="#">EEMN01</a>	7.5	A	1	1	X	E1	Micro Sensors		<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	4
<a href="#">EAFN40</a>	7.5	A	1	1	X	E	Quantum Information	X	<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	4
<a href="#">EXTP90</a>	7.5	A	1	1	X	E	Solid State Theory		<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	4
<a href="#">EXTP95</a>	7.5	A	1	1	X	E1	The Physics of Surfaces		<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	4
<a href="#">EITN35</a>	7.5	A	2	1	X	E1	Advanced Course in Electrical and Information Technology		<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	1
<a href="#">EAFN25</a>	7.5	A	2	1	X	E	Atomic and Molecular Spectroscopy		<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	1
<a href="#">EXTF90</a>	7.5	G2	2	1	X	E	Photon and Neutron Production for Science		<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	1

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
										sp1	sp2	sp3	sp4
<a href="#">EMFN01</a>	7.5	A	2	1	X	E1	Quantum Mechanics, Advanced Course 1	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		1			
<a href="#">EFFN01</a>	7.5	A	2	1	-	E	Advanced Processing of Nanostructures	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		1	2		
<a href="#">MAMN20</a>	7.5	A	2	1	X	E1	Aerosol Technology Project	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		1	2		
<a href="#">EITN35</a>	7.5	A	2	1	X	E1	Advanced Course in Electrical and Information Technology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			2		
<a href="#">MAMF55</a>	7.5	G2	2	1	X	E1	Aerosol Technology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			2		
<a href="#">EXTN90</a>	7.5	A	2	1	X	E	Experimental Methods and Instrumentation for Synchrotron Radiation Research	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			2		
<a href="#">EITP01</a>	7.5	A	2	1	X	E1	High Speed Devices	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			2		

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links			
									sp1	sp2	sp3	sp4
<a href="#">FHLN10</a>	7.5	A	2	1	X	E	Modern Experimental Mechanics	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		
<a href="#">FFFN05</a>	7.5	A	2	1	X	E	Nanomaterials - Thermodynamics and Kinetics	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		
<a href="#">EMEN25</a>	7.5	A	2	1	X	E	Statistical Mechanics	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		
<a href="#">EITN35</a>	7.5	A	2	1	X	E1	Advanced Course in Electrical and Information Technology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	
<a href="#">FFFN01</a>	7.5	A	2	1	-	E	Advanced Processing of Nanostructures	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4
<a href="#">MAMN20</a>	7.5	A	2	1	X	E1	Aerosol Technology Project	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4
<a href="#">EITN35</a>	7.5	A	2	1	X	E1	Advanced Course in Electrical and Information Technology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				4
<a href="#">EMEN25</a>	7.5	A	1	1	X	E1	Nano Mechanics and Multiscale Modelling	X <a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		Course on hold		

[FAFN40](#) Quantum Information: *The course is offered every other academic year and will be given in 2020/21, 2022/23.*

[FMEN25](#) Nano Mechanics and Multiscale Modelling: *The course is offered every other academic year and will next be offered in 2021/22.*

## Degree Projects - MNAV

The list contains the degree project courses that are included in the MNAV programme.

### Links

Course Code	Credits	Course Name	Links
EITM02	30	Degree Project in Electrical and Information Technology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
PHYM03	30	Degree Project in Physics	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>