

MATERIALS PHYSICS AND NANOSCIENCE

YEAR 1

Autumn 1	Autumn 2	Spring 1	Spring 2
<u>Nanotechnology,</u> 6 ECTS	<u>Soft condensed matter physics,</u> 6 ECTS	<u>Materials science,</u> 6 ECTS	<u>Solid state physics II,</u> 6 ECTS
<u>Chemical bonding,</u> 6 ECTS	<u>Solid state physics I,</u> 6 ECTS	<u>Growth and characterisation of nanomaterials,</u> 6 ECTS	
		<u>Advanced project work in applied physics,</u> 6 ECTS	
<u>Experimental physics,</u> 6 ECTS		<u>Communication, ethics and sustainable development,</u> 6 ECTS	

YEAR 2 - tailor your studies

	Autumn 1	Autumn 2	Spring 1	Spring 2
OPTION 1: 60 ECTS thesis work	<u>Thesis work,</u> <u>60 ECTS</u>			
OPTION 2: 12 ECTS courses + 18 ECTS project work + 30 ECTS thesis work	Elective courses, 12 ECTS		<u>Thesis work,</u> <u>30 ECTS</u>	
	Project work, 18 ECTS			
OPTION 3: 30 ECTS courses + 30 ECTS thesis work	Elective courses, 30 ECTS		<u>Thesis work,</u> <u>30 ECTS</u>	

ELECTIVE COURSES TO CHOOSE FROM

Materials for energy technology, 6 ECTS	
AI for materials science, 6 ECTS	<u>Semiconductor technology,</u> 6 ECTS
<u>Quantum mechanics,</u> 6 ECTS	<u>Computational physics,</u> 6 ECTS
<u>Modern optics,</u> 6 ECTS	<u>Material synthesis,</u> 6 ECTS
<u>Surfaces and interfaces,</u> 6 ECTS	
<u>Applied chemistry,</u> 6 ECTS	

	Mandatory courses
	Thesis work
	Elective courses
	Project work