

Nanoscience Topmaster programme
Listing of elective courses (version of 30 January 2018)

	Coursecode Ocasys	Description Ocasys	ECTS Ocasys	ECTS Nanoscience	
semester I a 2018- 2019	WMBE14003	<u>Biomaterials 2</u>	5	4	
	*As far the schedule does not change	NACP-11	<u>Computational physics</u>	5	3
	CHTCIE05E	<u>Interfacial engineering</u>	5	4	
	WMPH13010	<u>Lie Groups in Physics</u>	5	4	
	NAMM-08	<u>Micromechanics</u>	5	4	
	CHORM05E	<u>Reaction mechanisms</u>	5	4	
	CHSPSM05E	<u>Structure determination with spectroscopic methods</u>	5	4	
	NASI-08	<u>Surfaces and Interfaces</u>	5	3	
	semester I b 2018- 2019*	MLBB007	<u>Advanced Protein Crystallography</u>	5	4
		*As far the schedule does not change	WMPH13001	<u>Advanced Quantum Mechanics</u>	5
MLBMTCG		<u>Colloid and Interface Science</u>	5	4	
CHMQ105E		<u>Molecular quantum mechanics 1</u>	5	4	
CHNC-10		<u>Nanochemistry</u>	5	3	
CHTPP05E		<u>Polymer products</u>	5	4	
NAQVT-08		<u>Quantum field theory</u>	5	4	
STMASP-12		<u>Statistical signal processing</u>	5	4	
semester II a 2017-2018		CHTAPE05E	<u>Advanced product engineering</u>	5	4

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	WMCH13009	Advances in Chemical Biology	5	4
	CHMQ205E	<u>Molecular quantum mechanics 2</u>	5	4
	WMFA15001	Nanomedicine and Nanosafety	5	4
	NANLO-08	<u>Non-linear optics</u>	5	4
	CHOMS105E	<u>Organic synthesis: methods and strategy 1</u>	5	4
	CHOMC05E	<u>Organometallic chemistry</u>	5	4
	WMPH17001	<u>Physics of lasers</u>	5	4
	NASM-07	Statistical Mechanics	5	4
	NASMPH05E	<u>Statistical methods in physics</u>	5	4
	CHC3133E	<u>Supramolecular chemistry</u>	5	4
	WMCH13002	Synthetic Biology & Systems Chemistry	5	4
	NAITCMP-07	<u>Theoretical condensed matter physics</u>	5	4
semester II b 2017-2018	WMCH13010	Chemical Catalysis	5	4
	CHCMQC-08	<u>Computational Chemistry</u>	5	4
	NAIPP-09	<u>Introduction to plasma physics</u>	5	4
	NAMPS05E	<u>Many-particle systems</u>	5	4
	NAMM-12	<u>Mathematical methods of physics</u>	5	4
	NAMP-08	<u>Mesosopic physics</u>	5	4
	CHMLM05E	<u>Modern laser microscopy</u>	5	4
	CHOMS205E	<u>Organic Synthesis: methods and strategy 2</u>	5	4

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WMCH13003	<u>Physical Methods for Chemical Analysis</u>	5	4
CHPPH05E	<u>Polymer physics</u>	5	4
CHOSC05E	<u>Stereochemistry</u>	5	4
WMPH13007	<u>Ultrafast Time- Resolved Spectroscopy</u>	5	4
