

Master Nanoscience – list of electives (Version 1 March 2019)

Period	Course Code Ocasys	Name course with link to Ocasys	Credits ECTS	Credits Nanoscience
semester II a – 2018-2019	CHTAPE05E	Advanced product engineering	5	4
	WMCH13009	Advances in Chemical Biology	5	4
	CHMQ205E	Molecular Quantum Mechanics 2	5	4
	WMFA15001	Nanomedicine and nanosafety	5	3
	NANLO-08	Non-linear optics	5	4
	CHOMS105E	Organic Synthesis: Methods and Strategy 1	5	4
	CHOMC05E	Organometallic Chemistry	5	4
	WMPH17001	Physics of Lasers	5	4
	NASM-07	Statistical mechanics	5	4
	NASMPH05E	Statistical methods in physics	5	4
	CHC3133E	Supramolecular chemistry	5	4
	WMCH13002	Synthetic Biology and Systems Chemistry	5	4
	NAITCMP-07	Theoretical condensed matter physics	5	4
	semester II b – 2018-2019	WMPH13001	Advanced Quantum Mechanics	5
WMCH13010		Chemical Catalysis	5	4
CHCMQC-08		Computational Chemistry	5	4
NAIPP-09		Introduction to plasma physics	5	4
NAMPS05E		Many-particle systems	5	4
NAMP-08		Mesoscopic physics	5	4

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semester I a 2019-2020 As far the schedule does not change	CHMLM05E	<u>Modern Laser Microscopy</u>	5	4
	CHOMS205E	<u>Organic Synthesis, Methods and Strategy 2</u>	5	4
	CHPPH05E	<u>Polymer Physics</u>	5	4
	WMPH13007	<u>Ultrafast Time- Resolved Spectroscopy</u>	5	4
	WMBE14003	<u>Biomaterials 2</u>	5	4
	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 (19/20)</u>	5	4
	CHORM05E	<u>Reaction Mechanisms</u>	5	4
semester I b 2019-2020 As far the schedule does not change	CHSPSM05E	<u>Structure determination with spectroscopic methods</u>	5	4
	NASI-08	<u>Surfaces and Interfaces</u>	5	3
	MLBB007	<u>Advanced Protein Crystallography</u>	5	4
	NAMM-12	<u>Mathematical Methods of Physics</u>	5	4
	WMIE18007	<u>MEMS, NEMS and Nanofabrication</u>	5	4

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CHMQ105E	<u>Molecular Quantum Mechanics 1</u>	5	4
WMCH13003	<u>Physical Methods for Chemical Analysis</u>	5	4
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
CHOSC05E	<u>Stereochemistry</u>	5	4