






MOBILITY SCHEME AND CONTENT OF THE ASC MASTER'S COURSE

 ASC Master	2 Year Curriculum-Teaching in English					
	Semester 1 Common Core courses (30 ECTS)	Semester 2 Orientation Courses (30 ECTS)		Semester 3 Specialisation Courses (30 ECTS)		Semester 4 Research Project (30 ECTS)
 Jagiellonian University in Krakow				Internship and Transferable Skills 10 ECTS		SPECTROSCOPY OF NANOMATERIALS SPECTROSCOPY OF BIOMATERIALS
				Forensic Chemistry 5 ECTS		
				Multivariate Analysis in Chemistry 5 ECTS		
				Spectroscopy of Hydrogen-Bonded Systems 5 ECTS		
				Advances in Spectroscopic Characterization of Nanomaterials 5 ECTS		
				Spectroscopic Methods for Characterization and Imaging of Biomaterials 5 ECTS		
				Quantum-Chemical Molecular Modelling 10 ECTS		
 UNIVERSITÄT LEIPZIG			Synchrotron Radiation and its Applications 5 ECTS	Internship and Transferable Skills 10 ECTS		SPECTROSCOPY FOR BIOORGANICS SURFACE SCIENCE AND CATALYSIS
			Spectroscopy at Liquid Interfaces 5 ECTS	Medicinal Chemistry 5 ECTS		
			Receptor Biochemistry 5 ECTS	Bioorganic Chemistry 5 ECTS		
			Selected Topics of NMR Spectroscopy 5 ECTS	Surface Analysis of Solids 5 ECTS		
			Highlights in Natural Products Synthesis 5 ECTS	Nano Structured Catalytic Systems 5 ECTS		
			Time-Resolved and Surface Spectroscopy 5 ECTS	Protein Crystallography 5 ECTS		
			Modern Concepts in Catalysis 5 ECTS	Methods and Procedures for Trace Analysis 5 ECTS		
			Homogeneous Catalysis in Industry, Synthesis and Nature 5 ECTS			
			Recent Trends in Chemistry 5 ECTS			
			Separation techniques and advanced "omics"-techniques 5 ECTS			
			Spectroscopy 5 ECTS			
 Université de Lille SCIENCES ET TECHNOLOGIES	Quantum Chemistry and Chemical Bonds 5 ECTS	Synchrotron Radiation and its Applications 5 ECTS	Physical Organic Chemistry 5 ECTS	Internship and Transferable Skills 10 ECTS	Characterization of Disordered or Nanostructured Solids 10 ECTS	SPECTROSCOPY FOR SOLID STATE SPECTROSCOPY AND CATALYSIS
	Nuclear Magnetic Resonance 5 ECTS	Advanced Chemical Kinetics and Catalysis 5 ECTS	Methodologies in Inorganic Chemistry 5 ECTS	Molecular Modelling 5 ECTS	Organic Photochemistry 5 ECTS	
	Optical Spectroscopy 5 ECTS	Experimental Methodologies in Environmental Sciences 5 ECTS	Spectroscopy for Biology 5 ECTS	Physics and Chemistry of the Atmosphere 5 ECTS	Advanced spectroscopic Techniques for Environmental Analysis 5 ECTS	
	English and Professionalisation 5 ECTS	Applied Molecular Spectroscopy 5 ECTS	Imaging and Chemometrics 5 ECTS			
	X Ray Diffraction 5 ECTS					
	Mass Spectrometry 5 ECTS					
 UNIVERSITY OF HELSINKI				Internship and Transferable Skills 10 ECTS	Personal Study Plan 1 ECTS	COMPUTATIONAL CHEMISTRY GREEN AND ATMOSPHERIC CHEMISTRY
				Functional Polymers 5 ECTS	Separation Techniques 5 ECTS	
				Laboratory Course for Sample Preparation and Chromatography 5 ECTS	NMR Spectroscopy for Organic Compounds Part II 5 ECTS	
				Structure and Reactivity / Organic Reactions 5 ECTS	Polymer Physics 5 ECTS	
				Organic Reaction Mechanisms 5 ECTS	Mathematical and Numerical Methods 5 ECTS	
				Green Chemistry: Renewable Materials and Sustainable Energy ECTS	Basics of Organometallic Chemistry 5 ECTS	
				Internship and Transferable Skills 10 ECTS	Spectroscopy of Condensed Phases 4 ECTS	
				Sustainable Industrial Chemistry and Polymers 4 ECTS	X-ray Techniques 4 ECTS	
				High Resolution Molecular Spectroscopy 4 ECTS	Spectroscopic Methods in Coordination Chemistry 4 ECTS	
				Organic Chemistry for Nanotechnologies with Laboratory 4 ECTS	Organic Chemistry for Nanotechnologies with Laboratory 4 ECTS	

Winter School

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 Mandatory units
 Free Choice Units