






 <small>ERASMUS MASTER</small> ASC <small>Advanced Spectroscopy in Chemistry</small>	ASC Summer School, 20th June – 24th June 2022, Jagiellonian University in Krakow <i>Characterization of materials with spectroscopic and imaging techniques</i>				 <small>JAGIELLONIAN UNIVERSITY IN KRAKÓW</small>
Monday 20 th of June	Tuesday 21 st of June	Wednesday 22 nd of June	Thursday 23 rd of June	Friday 24 th of June	
	9:00 Opening 9:15-11:00 Lecture 1 Dr. J. Gryboś (Jagiellonian Univ.) Topic: Introduction to TEM	9:15-11:30 Lecture 5 Prof. K. Góra-Marek, Dr. K. Tarach (Jagiellonian Univ.) Topic: 2D IR in catalysis	9:15-11:00 Lecture 8 Dr. D. Marek (MS Spectrum) Topic: IR – applications 	9:15-11:00 Lecture 10 Dr. B. Leszczyński (Jagiellonian Univ.) Topic: X-ray microtomography	
	11:15-13:00 Lecture 2 Dr. A. Domanska (Univ. Helsinki) Topic: cryoEM	11:45-13:00 Lecture 6 Prof. R. Denecke (Univ. Leipzig) Topic: XPS for battery materials	11:15-13:00 Lecture 9 Prof. K. Kruczała (Jagiellonian Univ.) Topic: EPR Imaging	11:15-13:00 Lecture 11 Renishaw Raman 	
	13:00 – 14:00 Lunch break	13:00 – 14:00 Lunch break	13:00 – 14:00 Lunch break	13:00 – 14:00 Lunch break	
	14:15-16:00 Lecture 3 Prof. E. Venuti (Univ. Bologna) Topic: Raman for molecular crystals	14:15-16:00 Lecture 7 Prof. Sz. Zapotoczny (Jagiellonian Univ.) Topic: AFM	14:15 Scientific excursion	 UtrechtNetwork <small>since 1987</small>	
Registration Faculty of Chemistry	16:15-18:00 Lecture 4  Dr. M. Gaboardi (Elettra Sincrotrone) Topic: Powder XRD at synchrotron	16:30-18:30 Visit to SOLARIS - National Synchrotron Radiation Center 			
Dinner (hotel)	19:00 Dinner (Hotel)	19:00 School gala dinner	19:00 Dinner (Hotel)	19:00 Dinner(Hotel)	



With the support of the Erasmus+ Programme of the European Union

Agreement no. 2019-1409/001-001

Project no. 610540-EPP-1-2019-1-FR-EPPKA1-JMD-MOB