



HS - Hard Sciences unveiled – an interdisciplinary Tour (HS)

Coordinator: Prof. dr. habil. Ionuț Topală (ionut.topala@uaic.ro)

Date	Time	Course title	Lecturer / Coordinator	Meeting place (actual location)
WEEK 1				
08 July (Mon)	08:00-09:00 09:00-10:00	Registration - All JASSY modules JASSY Summer School opening Brief introduction of the JASSY coordinators Keynote presentation "Jassy: Connecting Knowledge" delivered by Assoc.Prof.dr. Dana Bădulescu, Faculty of Letters		Mihai Eminescu Aula Magna Building A, 1 st floor
	10:00	Group photo - <i>All JASSY modules</i>		UAIC main entrance – the <i>Two Lions</i>
	10:15-11:00	Brief overview of the module. Brief introduction of the coordinator and the students (W)	Ionuț Topală	Hall L1, Building A
	11:30-13:30	A hands-on experience in machine learning (W)	Diana Trandabăț	
	16:30-18:00	Introduction to UAIC – Iași University – guided tour. Presentation of the Palace of the University (1897) and its Painting Gallery “Hall of Echoing Lost Steps”, Tafrali Bookstore, UAIC Campus (FA). <i>All JASSY modules</i>	Mihai Bulai	UAIC main entrance – the <i>Two Lions</i>
	18:00–19:30	JASSY reception and welcome buffet. <i>All JASSY modules</i>		Terrace of CUI / <i>Casa Universitarilor</i>
09 July (Tue)	09:00-11:00	Mathematical models in Life Sciences (L)	Iulian Stoleriu	Hall L1, Building A
	11:30-13:30	Astronomy & Sky Map reading. Sky interpretation at Planetarium (L)	Cătălin Galeș	Hall L1, + Planetarium Building A
	16:00-19:00	Guided tour of the city of IAȘI – „the city of creators” (FA). Visit of the Iași National Opera & Theater Grand Hall. <i>All JASSY modules</i>	Mihai Bulai & Cristian Manuel Foșalău	UAIC main entrance – the <i>Two Lions</i>
10 July (Wed)	09:00-11:00	Artificial Intelligence: what it really is and how it really works (L)	Ionuț Pistol	Hall L1, Building A
	11:30-13:30	Basic optimization algorithms which cannot exist without “a little bit of math” (W)	Dumitreț Ghîba	
	15:00-18:00	Guided visit of the “Palace of Culture”, the Former Princely Palace of Moldavia (FA) <i>All JASSY modules</i>	Mihai Bulai	Palace of Culture (main entrance)
11 July (Thu)	09:00-11:00	Hands on High Energy Particle Physics (W)	Cătălin Agheorghiesei	Hall L1, Building A
	11:30-13:30	Diatomic molecular spectra (W)	Ionuț Topală	
	16:00-19:30	Birdwatching and Ecotourism principles. Plants and birds’ diversity – visit of Botanical Garden of Iași, owned by UAIC (FA) <i>All JASSY modules</i>	Carmen Gache & Cristiana Virginia Petre	UAIC main entrance – the <i>Two Lions</i>
12 July (Fri)	09:00-11:00	Introduction to Cryptography and Internet of Things (IoT) (W)	Anca Maria Nica	Hall L1, Building A
	11:30-13:30	Artificial Intelligence in Computer Games (L)	Eugen Croitoru	
13 July (Sat)	09:00-14:00	Introduction in kayaking (FA) <i>No skills required. (also during rain; All JASSY modules)</i>	Alexandru Oprean Marin Chirazi	UAIC main entrance – the <i>Two Lions</i>
14 July (Sun)	10:00-16:30	Preparation of Outdoor Activities – excursion around Iași (<i>introduction to outdooing, choosing the right equipment, bird watching, local gastronomy, using apps for outdoor activities etc.</i>) <i>All JASSY modules</i> (FA)	Lucian Roșu Constantin Ion Mihai Bulai	Meet at 10.00h at Iași Train Station (Gara Mare) – train to Bârnova (25 km)



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WEEK 2				
15 July (Mon)	09:00-11:00	Chaos and self-organization (L + W)	Dan Dimitriu	Hall L1, Building A
	11:30-13:30	Introduction to plasma physics (W)	Claudiu Costin	
	15:00-19:00	Wine technology and tasting techniques at the Oenological Institute of Iași OII University of Life Sciences IULS (W) <i>All JASSY modules: 15:00h – First group (max 25 pers) 17:00h – Second group (max 25 pers)</i>	Ramona Danac Mihai Bulai	Meeting place UAIC – <i>the Two Lions</i> (bus to OII-IULS)
16 July (Tue)	09:00-11:00	The correlation between microstructure and functional properties in materials for microelectronics (L)	Lavinia Curecheriu	Hall L1, Building A
	11:30-13:30	Introduction to Mixed Realities (L)	Adrian Iftene	
	15:00-17:00	The Psychology of Appearance: A Crosscultural Approach to First Impressions. (W)	Athes Haralambie Lucian Roșu	CUI <i>Ion Simionescu</i> Conference hall
	17:00-19:00	Debate on contemporary Eastern European issues: post-Covid Economic challenges, Regional Security, Environmental challenges.	Module Coordinators (Mihai Bulai)	
17 July (Wed)	09:00-11:00	Applications of Probability Theory (L)	Lucian Maticiu	Hall L1, Building A
	11:30-13:30	Numerical simulations in physics (L + W)	Cristian Enachescu	
18 July (Thu)	09:00-11:00	Basic mathematical structures used in cryptography (L)	Răzvan Lițcanu	Hall L1, Building A
	11:30-13:30	Communicating science: delivering clear and interesting scientific information (W)	Mădălina Cocea	
	15:00-17:00	Guided visit of the experimental physics research facilities (FA)	Ionuț Topală	Building A
19 July (Fri)	10:00-12:00	TEST, computer-aided, multiple choice & feedback on the assessment results	Ionuț Topală	Hall L1, Building A
	13:00-14:00	Buffet lunch <i>All JASSY modules</i>		Hall of Lost Steps, Building A
	14:00-15:00	JASSY Summer School Closing <i>All JASSY modules</i>		<i>Mihai Eminescu</i> Aula Magna Building A

L = Lecture

W = Workshop

FA = Field Application

 **Common activities for some modules**

 **Common activities for all modules**

 **Test**

Note: 2 hours of course/field work are usually composed of 50' activity + 10' break.

Weektime (MON-FRI):

11.00 – 11.30 – coffee-break

13.45 – 15.00 – lunch break (Titu Maiorescu University Cafeteria)