



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

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

Date	Time	Course title	Lecturer/Coordinator	Hall/Class/ Lab Building or Meeting Point
WEEK 1				
5 July (Mon)	08.30-09.00	Registration		<i>Mihai Eminescu</i> Aula Magna Building A
	09.00-10.00	JASSY Summer School opening		
	10.00-11.00	Meeting the module lecturers Overview of the module structure, activities, type of assignments and assessment method(s)		L1 Amphitheatre, Building A
	11.30-13.30	Artificial Intelligence: what it really is and how it really works (L)	Ionuț Pistol	L1 Amphitheatre, Building A
	16.00-17.30	Introduction to UAIC – Iași University – guided tour. Presentation of the Palace of the University (1897) and its Painting Gallery “Hall of Echoing Lost Steps”, <i>Tafrali</i> Bookstore & Campus (FA). <i>All JASSY modules</i>	Mihai Bulai	UAIC main entrance – the <i>Two Lions</i> , Building A
18.30–20.30	JASSY reception <i>All JASSY modules</i>		<i>B.P Hasdeu Hall</i> , Central University Library	
6 July (Tue)	09.00-11.00	Diatomic molecular spectra (W)	Ionuț Topală	L1 Amphitheatre, Building A
	11.30-13.30	Astronomy & Sky Map reading. Sky interpretation at Planetarium (L) – <i>with TTG Module</i>	Cătălin Galeș	L1 Amphitheatre + Planetarium Building A
	15.00-18.00	Guided tour of the city: „Iași - Romanian Capital of Culture” (FA) <i>All JASSY modules</i>	Mihai Bulai Corneliu Iașu	UAIC main entrance – the <i>Two Lions</i>
7 July (Wed)	09.00-11.00	Introduction to plasma physics (W)	Claudiu Costin	L1 Amphitheatre Building A
	11.30-13.30	Introduction to Cryptography and Internet of Things (IoT) (W)	Anca Maria Nica	L1 Amphitheatre Building A
	17.00 18.10-20.10	Guided tour of the Romanian National Opera Iași Live Ballet performance – <i>Don Quijote</i> by Ludwig Minkus <i>All JASSY modules</i>	Mihai Bulai	Romanian National Opera Iași
8 July (Thu)	09.00-11.00	Hands on High Energy Particle Physics (L)	Cătălin Agheorghiesei	PDF Computer Laboratory
	11.30-13.30	Hands on High Energy Particle Physics (W)	Cătălin Agheorghiesei	PDF Computer Laboratory
	15.00-19.00	Self-study		
9 July (Fri)	09.00-11.00	A hands-on experience in machine learning(W)	Diana Trandabăț	L1 Amphitheatre Building A
	11.30-13.30	Mathematical models in Life Sciences (L)	Iulian Stoleriu	L1 Amphitheatre Building A
	15.00-19.00	Birdwatching and Ecotourism principles. Plants and birds’ diversity – visit to Botanical Garden of Iași, owned by UAIC (FA) <i>All JASSY modules</i>	Carmen Gache & Cristiana Virginia Petre	UAIC the <i>Two Lions</i> (Botanic Garden)
10 July (Sat)	09.00-13.00	Introduction in kayaking (FA) <i>No skills required. (also during rain; maximum 20 pers. from all JASSY modules)</i>	Alexandru Oprean Vlad Munteanu	UAIC main entrance – the <i>Two Lions</i>



11 July (Sun)	10.00-18.00	Preparation of Outdoor Activities (<i>introduction to outdooring, choosing the right equipment, bird watching, importance of consumption of local ecological products, using apps for outdoor activities etc.</i>) (FA)	Lucian Roșu Constantin Ion Mihai Bulai	UAIC – the <i>Two Lions</i> (20 km around Iași)
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WEEK 2				
12 July (Mon)	09.00-11.00	Basic mathematical structures used in cryptography (L)	Răzvan Lițcanu	L1 Amphitheatre
	11.30-13.30	Introduction to Mixed Realities (L)	Adrian Iftene	L1 Amphitheatre
	15.00-19.00	Wine tasting techniques (W) <i>All JASSY modules</i>	Mihai Bulai Ramona Danac	UAIC – the <i>Two Lions</i>
13 July (Tue)	09.00-11.00	Numerical simulations in physics (L)	Cristian Enachescu	PDF Computer Laboratory
	11.30-13.30	Artificial Intelligence in Computer Games (L)	Eugen Croitoru	L1 Amphitheatre
	15.00-17.30	Guided visit of the <i>Palace of Culture</i> , the former Princial Palace of Moldavia (FA) <i>All JASSY modules</i>	Mihai Bulai Daniela Șoitu	Site tour Palace of Culture
	17.30-19.30	Who wants to be a Geo-millionaire? Individual game, 15 questions. Fun quiz party (W) <i>All JASSY modules</i>	Lucian Roșu Athes Haralambie	TBD
14 July (Wed)	09.00-11.00	Basic optimization algorithms which cannot exist without “a little bit of math” (W)	Dumitrel Ghiba	L1 Amphitheatre
	11.30-13.30	Chaos and self-organization (L + W)	Dan Dimitriu	L1 Amphitheatre
	15.00-19.00	Self-study		
15 July (Thu)	09.00-11.00	Applications of Probability Theory (L)	Lucian Maticiuc	L1 Amphitheatre
	11.30-13.30	The correlation between microstructure and functional properties in materials for microelectronics (L)	Lavinia Curecheriu	L1 Amphitheatre
	15.00-19.00	Self-study		
16 July (Fri)	10.00-12.00	TEST, computer-aided, multiple choice & feedback on the assessment results	Ionuț Topală	L1 Amphitheatre
	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

11.00 – 11.30 – coffee-break

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