

Schedule: Colours and Life in the Universe

20 th November		21 st November	
9:00 - 10:00	Arrival & Coffee	08:30- 09:00	Coffee
10:00 - 10:30	Introduction to the workshop Speakers: Kristers Nagainis & Aigars Atvars (University of Latvia)	09:00 - 10:00	Lecture: How does spectroscopy work? Speaker: Dr. Mojtaba Raouf Hajar Zarrin
10:30 - 11:30	Lecture: Space Science and Exploration (Introductory lecture) Speaker: Prof. Bernard Foing	10:00 - 11:30	Dr. Mojtaba Raouf - spectroscopy of galaxies
			Dr. Kārlis Puķītis - Precise stellar radial velocities and abundances with high-resolution optical spectroscopy
			Dr. Salim Ansari - ESA Sky - Introduction and Practical Usage
			Kalvis Salmiņš - data processing pipeline for SLR station
	Discussion: Methods of data analysis		
11:30 - 12:00	Projects overview & roundtable interests; splitting into projects Speakers: Kristers Nagainis & Prof. Bernard Foing	11:30 - 12:00	Roundtable: Project status & feedback
12:00 - 12:30	Solar demonstration with telescopes	12:00 - 12:30	<i>Solar demonstration (+ radio observations)</i>
12:30 - 13:30	Lunch	12:30 - 13:30	Lunch
13:30 - 14:30	Lecture: 101 course on telescope imaging Speaker: Dr. Salim Ansari	13:30 - 15:30	Project work: literature reading, instrumentation preparation, solar projects, work plans
14:30 - 15:30	Lecture: Gaia telescope – data & science Speaker: Dr. Salim Ansari	15:30 - 17:00	Pannel session: Space research, innovation & business
			Prof. Gülin Dede - #NewSpace: From Vision to Venture
			Dr. Vilma Puriene and Jara Pascual - From Space to Society: Bridging Innovation through Digital Ecosystems
			Prof. Andris Slavinskis - Photorealistic modelling of a yet-unknown target for the Comet Interceptor mission
			Prof. Bernard Foing - Space missions
	Discussion		
15:30 - 16:00	Coffee break	17:00 - 17:15	Coffee Break
16:00- 16:30	Student talks	17:15 - 18:00	Panel discussion: Space research, innovation & business
16:30 - 18:00	Hands-on: Understanding spectral data & operating telescope	18:00 - 21:00	Dinner and networking
		21:00 - 22:00	Night tour in Riga



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22nd November		23rd November	
09:00 – 09:30	Meeting at House of Science	10:00 – 11:00	Breakfast
09:30 – 10:30	Getting to Baldone Observatory	11:00 – 12:00	Project wrap-up
11:00 – 12:00	<i>Observatory tour & lecture Speaker: Dr. Ilgmars Eglitis</i>	12:00 – 13:00	Lunch
12:00 – 13:00	Lunch	13:00 – 13:50	<i>Preparation of presentations & reports</i>
13:00 – 14:00	<i>Lecture: Extracting information from observations (asteroids, photometry, spectroscopy) Speaker: Dr. Ilgmars Eglitis</i>	13:50 – 14:00	Break
14:00 – 14:20	Coffee break	14:00 – 15:45	<i>Project presentations (30 min + 5 min Q&A per team)</i>
14:20 – 15:00	<i>Lecture + Hands-on: Imaging & spectroscopic analysis for projects Speaker: Kristers Nagainis</i>	15:45 – 16:00	Committee decision and comments <i>Comittee: Dr. Arnolds Ūbelis, Lev Lapkis, Dr. Mojtaba Raouf Hajar Zarrin, Dr. Kārlis Puķītis</i>
15:00 – 15:30	<i>Project continuation</i>	16:00 – 16:20	ESA BIC Latvia and ActInSpace hackathon <i>Speaker: Lev Lapkis</i>
15:30 – 16:00	Lecture: Solar telescopes & missions (SOHO, Solar Orbiter, Proba-3, Jove, eclipse 2026)	16:20 – 17:00	Results: Awards & next steps
16:00 – 17:00	<i>Project work: Equipment setup, calibration, Moon observations</i>	17:00 – 18:00	Return to Riga
17:00 – 18:00	<i>Dinner (at observatory)</i>		
18:00 – 19:00	Sky tour & telescope demonstrations Speakers: Dr. Mojtaba Raouf (LUNEX Celestron 5), Dr. Varis Karitāns (55 cm telescope)		
19:00 – 05:00	<i>Project work</i>		

See you soon!