

Interdisciplinary School of Doctoral Studies

ISDS-UB COURSES - Broad Interdisciplinarity

Academic year 2025-2026

SEMESTER II

For registration: <https://forms.gle/GjQic558AjgaYjA47>

Contact: isds@g.unibuc.ro

SCHEDULE

Discipline	Date	Hour	Teaching staff	Short description	Location
Quantitative data analysis	April 3	02.30- 07.30 PM	Professor Paul VASOS paul.vasos@icub.unibuc.ro	Keywords: Elements of statistical analysis: Examples of variables and distributions in real life; Statistical tests; Fitting data; Principal component analysis: how to stop worrying and recognize important data; Basics of nuclear magnetic resonance for metabolomics; Quantitative spectroscopy: data above the noise.	FSI, room 1.3 and online https://fsi.unibuc.ro/contact/
	April 17	02.30- 07.30 PM			
	April 24	02.30- 07.30 PM			
	May 8	02.30- 7.30 PM			
Observing and imaging through spectroscopy	May 15	02:00 - 07:00 PM	Professor Paul VASOS paul.vasos@icub.unibuc.ro	Keywords: Biomolecular response to radiation and biophysical outcomes; Inside the living: biomolecular function via spectroscopy; Imaging for diagnostic; MRI for structural imaging, angiography. Functional Magnetic Resonance Imaging (MRI) in studies of brain function; Biomolecular structure and dynamics via atomic-resolution spectroscopy. The course aims to offer insight into the mechanisms involved in the perception of	FSI, room 1.3 and online https://fsi.unibuc.ro/contact/
	May 22	02:00 PM - 07:00 PM			
	May 29	02:00 PM - 08:00 PM			
	June 5	02:00 PM -08:00 PM			
	June 12	02:00 PM - 7:00 PM			

	June 19	02:00 PM - 07:00 PM		the surroundings as well as in the imaging of the living. In order to reach this objective, it delves into the constituents of matter (atoms, molecules) and their interaction with radiation (light and beyond). The notions of resonance condition, emission, absorption, and stimulated emission are discussed. A brief discussion on the use of spectroscopy in the context of artworks analysis is equally foreseen.	
Scientific projects writing	March 27	02:00 PM -08:00 PM	Professor Paul VASOS paul.vasos@icub.unibuc.ro	Keywords: How to choose or pitch a financing application depending on the career stage; Who are the competitors and who are the potential collaborators; The role of conferences, articles, and preliminary data; Formation of a project team; Organization of requested financial means; Figures in proposals; Citations in proposals; How to convey a proposal message concisely; Financing and scientific careers; Perspectives	FSI, room 1.3 and online https://fsi.unibuc.ro/contact/
	March 28	02:00 PM -08:00 PM			