

GeoTAK On-line Pre-course (February 2022): Basic concepts in Geoinformation Technologies

Sustainable use and exploitation of natural resources using remote sensing

AGENDA

Online pre-course, February 2-3, 2022

Day	Time (CET)	Partner	Lecturer	Title	Description	Comments	
February 2	08h00-8h30	Opening Welcome Prof. Luis A. Ruiz – Project coordinator Prof. Anka Lisec , Prof. Krištof Oštir : A short introduction to the course e-platform and content				Zoom	
	8h30-10h00	UL	Prof Krištof Oštir	Fundamentals of Remote Sensing	Fundamentals of Remote Sensing, basic platforms, data processing with applications in natural resources	Zoom	
	10h00-10h30	Break					
	10h30-12h00	UL	Prof Krištof Oštir , Matej Račič	Copernicus – Sentinel: platforms, sensors and data	Copernicus program; Sentinel platforms and data hubs; Open data and software for data processing	Zoom	
Day	Time	Partner	Lecturer	Title	Description	Comments	
February 3	8h00-9h30	UPV	Prof Luis A. Ruiz	LiDAR systems and applications	Types of LiDAR; fundamentals of data processing; applications, with particular focus in forestry	Zoom	
	9h30-10h00	Break					
	10h00-11h30	VUB	Dr Jonathan C-W Chan	Hyperspectral sensors and with applications in natural resources	Fundamentals of hyperspectral data processing, applications in natural resources	Zoom	

GeoTAK On-line Pre-course

LAND – GIT in Land management, Land use / Land cover mapping, marginal lands

AGENDA

Online pre-course, February 9-10, 2022

Day	Time CET	Partner	Lecturer	Title	Description	Comments
February 9	08h00-8h30	Opening Welcome <i>Prof. Luis A. Ruiz</i> – Project coordinator <i>Prof. Anka Lisec</i> , A short introduction to the course e-platform and content				Zoom
	8h30-10h00	KTH	Dr Huan Fan	Geodetic reference systems	Traditional systems: astrogeodetic triangulation, precise levelling. Modern systems: geodynamics, earth rotation, ICRS and ITRS, national GNSS-based systems, 3D-transformations	Zoom
	10h00-10h30	Break				
	10h30-12h00	KTH	Dr Armin Agha Karimi	Land surveying and GNSS	Land surveying with total stations and levels. Fundamentals of GNSS technologies.	Zoom
Day	Time CET	Partner	Lecturer	Title	Description	Comments
February 10	8h00-9h30	UL	Dr <i>Mojca Kosmatin Fras</i>	Fundamentals of UAV photogrammetry	Fundamentals of UAV sensing, general workflow, factors influencing photogrammetric products, data quality	Zoom
	9h30-10h00	Break				
	10h00-11h30	UL	Dr <i>Dejan Grigillo</i>	UAV photogrammetry – data processing	UAV photogrammetric data processing; principles, workflow, parameters influencing quality of products	Zoom