



## Part 2: Students from UPV

Double Master's Degree Programme in Geomatics										
First year in Valencia (V), Second year in Karlsruhe (K)										
Module Type		Lecture	Semester							Sum per module
			1st	2nd	3rd	4th	5th	A option	B option	
Spatial data acquisition ≥30	V	Programming for geospatial applications	6							60
		Positioning		6						
		Techniques for Heritage and Architectural Documentation							6	
		Geospatial applications in mobile devices							6	
		Remote sensing and cartographic updating							6	
	Sensor georeferencing and Navigation							6		
	K	Satellite image analysis				6				
		Navigation			6					
		Geodesy				6				
		Mobile Apps GIS				6				
Geo-visualization ≥12	K	Geovisual Analytics			6				30	
		Web Services & Monitoring				6				
		BIM and VR/AR##			6					
	V	Environmental Mapping and Modelling						6		
		Web development and geoportals		6						
Spatial analysis ≥12	V	Urban planning and cadastre	6						66	
		Geostatistics and multivariate analysis	6							
		Geomatic Applications in Geomarketing	6							
		Big Data / Data Mining	6							
		Distribution of Spatial Information		6						
		GIS application development		6						
	Geospatial Content Managers and Smart Cities		6							
	K	OPEN Source GIS			6					
		Statistics for Big Data				6				
		Big Data			6					
Software Engineering and Programming				6						
Foreign Languages courses ≤8	K	German or English			4	4		14,		
		English Writing			2					
	V	English	4,5							
MSc thesis Project	V	MSc thesis (B Option + courses / Traineeship)						18	48	
	K	MSc thesis project (A Option)					30			
			34,5	30	42	34	30	48	218,5	

## Requires prerequisites, which will be checked after arrival at HKA