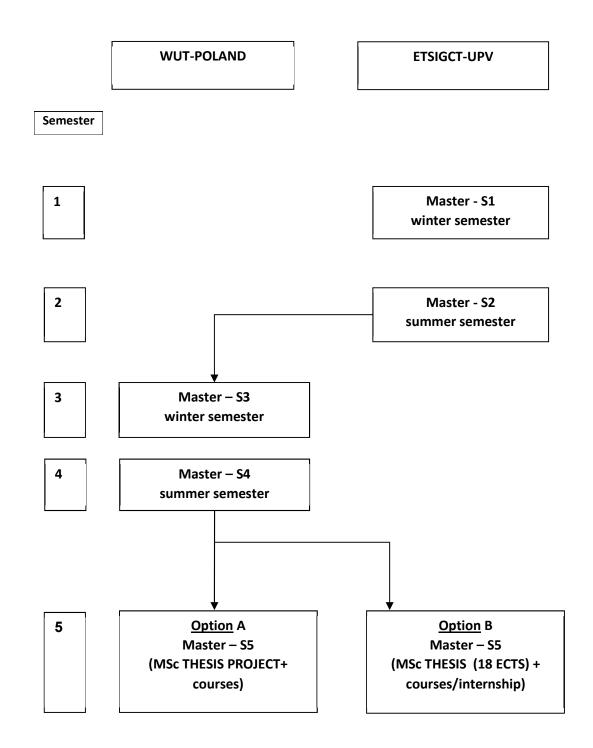
Appendix 1. Flow Diagram of the mobilities

Learning track 1: ETSIGCT-UPV to FGC-WUT. OPTION A and OPTION B

Each box represents an average of 30 ECTS.(see details)



LEARNING TRACK 1- OPTION A

	FG	C-WUT		-	ETSIGCT-UI	PV		
					S1-MASTER			
					Subject	Category	ECTS	
					Geostatistics and Multivariate Analysis (EF)	Compulso	6	S1-UPV
					Big Data/ Data Mining (EF)	Elective	6	S1-UPV
					Urban Planning and Cadastre	Compulso	6	S1-UPV
					Geomatic Applications in Geomarketing (EF)		6	S1-UPV
					Programming for Geospatial Applications (EF		6	S1-UPV
					(=)	<u> </u>	30	
					S2-MASTER			
					Subject	Category	ECTS	
					Web Development and Geoportals (EF)	Compulso	6	S2-UPV
					Positioning(EF)	Compulso	6	S2-UPV
					GIS Application Development (EF)	Compulso	6	S2-UPV
					Distribution of Spatial Information (EF)	Compulso	6	S2-UPV
					Geospatial Content Managers and Smart Citie		6	S2-UPV
					SSSSPACIAL CONTOUR Managers and ornart Otte	_1001100	30	1
	S	3-MASTER		•				
	Subject		Category	ECTS	1 1			
S1 WUT	Mobile and Navigational Carto		Obligator		1			
	Imagen recognition and deep	0 1 7	Obligator		1 1			
	Modern Photogrammetry		Obligator		1 1			
	Reference systems for naviga	tion	Obligator					
	Geophysics	alon .	Obligator					
S1 WUT	Selected problems of stochac	rtice	Obligator					
	Selected sections of physical		Obligator					
	Practices in fields	geodesy and geodyna	Obligator					
	Spatial data mining and Big D)ata	Obligator					
	Urban solutions for autonomo		Obligator					
S3 WUT			Obligator					
	Contemporary challenges in c		Elective	2				
00 1101	Polish language	nties development	Foreign I	2				
	. onon ranguage	ECTS	to obtain					
	S	4-MASTER						
	Subject		Category	ECTS				
S2 WUT	Geodetic and cartographic do		Obligaoti					
	Integrated Navigation System		Obligator					
	Spatial analysis		Obligator					
	English for geomatics		Foreign I	1				
	Modern measuring instrument	ts	Elective	2				
	Indoor navigation		Elective	2	1 1			
	Augmented Reality		Elective	2	1 1			
	Computer Vision and 3D data	processing	Obligator		1 1			
	3D city modelling		Obligator		1 1			
	Algorithmics of navigation app	olications	Obligator		1 1			
	Mobile mapping technologies		Obligator		1 1			
	Simultaneous localization and	d mapping (SLAM)	Obligator		1 1			
	Polish language		Foreign I		1 1			
		ECTS	to obtain		1			
	S5-MA	STER OPTION A						
	Subject		Category	ECTS				
S3-WUT	Diploma Thesis		Obligator					
	Diploma seminar		Obligator					
	Standard for geodata		Obligator					
S1 WUT	Programming language wi	th numerical method						
S1 WUT	Satellite Navigation Systen	ns	Obligator					
		ECTS	to obtain					
	то		60+90=15					
	· · · · · · · · · · · · · · · · · · ·							
		· · · · · · · · · · · · · · · · · · ·						

TOTAL ECTS at UPV = 60 ECTS.

TOTAL ECTS at WUT= 90 ECTS.

TOTAL = 150 ECTS.

LEARNING TRACK 1- OPTION B

	FGC-WI	UT			ETSIGCT-U	PV		
					S1-MASTER			
					Subject	Category	ECTS	
					Geostatistics and Multivariate Analysis (EF)			S1-UPV
					Big Data/ Data Mining (EF)	Elective	6	S1-UPV
		-			Urban Planning and Cadastre	Compuls		S1-UPV
					Geomatic Applications in Geomarketing (EF)		6	S1-UPV
							_	S1-UPV
					Programming for Geospatial Applications (EF	Compuls	6	51-UPV
							30	
					S2-MASTER			
					Subject	Category	ECTS	
					Web Development and Geoportals (EF)	Compulse		S2-UPV
					Positioning(EF)	Compuls	6	S2-UPV
					GIS Application Development (EF)	Compuls		S2-UPV
					Distribution of Spatial Information (EF)	Compuls		S2-UPV
					Geospatial Content Managers and Smart Citi	Elective	6	S2-UPV
							30	
	S3-MASTER	t						
	Subject		Category	ECTS				
S1 WUT	Mobile and Navigational Cartography		Obligator	3				
S1 WLIT	Imagen recognition and deep machine le	arning	Obligator	4				
	Modern Photogrammetry	arriing	Obligator	3		-		
	Reference systems for navigation		Obligator	2		-		
	Geophysics		Obligator	2				
	Selected problems of stochactics		Obligator	4				
S1 WUT	Selected sections of physical geodesy a	ind geodyna	Obligator	2				
S3 WUT	Practices in fields		Obligator	2				
	Spatial data mining and Big Data		Obligator	3				
	Urban solutions for autonomous vehicles		Obligator	1		-		
	Intelligent transportation systems and au		Obligator	1				
	Contemporary challenges in cities develo	pment	Elective	2				
	Polish Language		Foreign I	2				
		ECTS	S to obtain	31				
	S4-MASTER	₹						
	Subject		Category	ECTS				
S2 WUT	Geodetic and cartographic documentation	n		2				
	Integrated Navigation Systems		Obligator	4				
	Spatial analysis		Obligator	2		+		
						+		
	English for geomatics		Foreign I	1				
	Modern measuring instruments		Elective	2				
	Indoor navigation		Elective	2				
S2 WUT	Computer Vision and 3D data processing	g	Obligator	3				
S2 WUT	3D city modelling		Obligator	2				
	Algorithmics of navigation applications		Obligator	3				
	Mobile mapping technologies		Obligator	4				
	Simultaneous localization and mapping ((SLAM)	Obligator					
	Polish Language	CLAIVI	Foreign I	2		+		
 	i Giori Lariguage	IFOTO				+		
		ECIS	to obtair	30		-		
					40			
					*S5-MASTER OPTION B			
					Subject	Category		
					Master thesis	Compulse	18	
					Remote sensing and cartographic updating	Compuls	_	S3-UPV
					Geospatial Apps in mobile devices	Compuls		S3-UP\
					Internship	Elective	6	
		_				S to obtain		—
								—
					TOTAL OPTION E	61+90	=151	

^{*}Students in S5- Master Option B will select 12 ECTS courses among three options + 18 ECTS for Master Thesis.

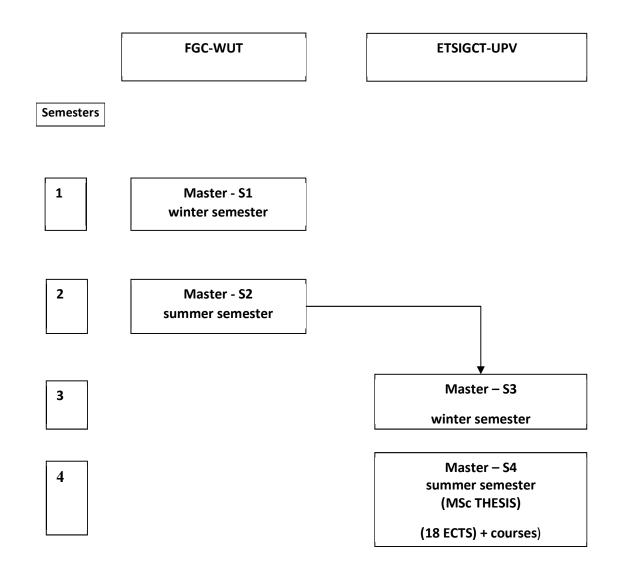
TOTAL ECTS at UPV= 90 ECTS.

TOTAL ECTS at WUT= 61 ECTS.

TOTAL = 151 ECTS

Learning track 2A: FGC-WUT (English-taught specialization) to ETSIGCT-UPV

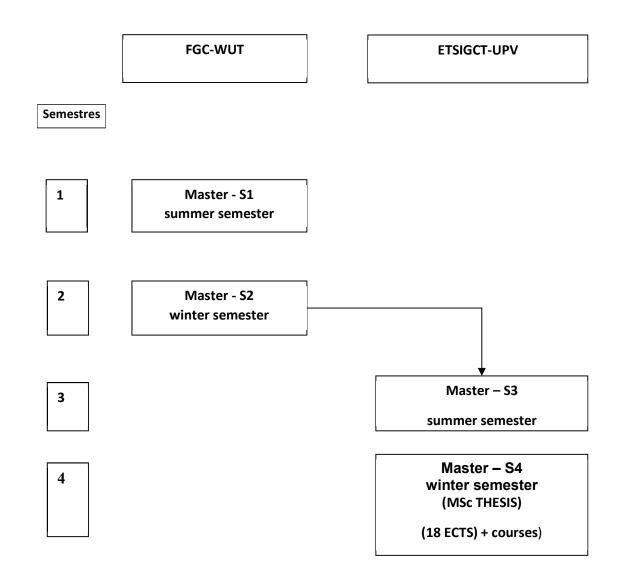
Each box represents at least 30 ECTS.



		FGC	-Wl	JT				ETSIGCT-UP	V	
	S1-	MASTER Mobile N	Mapping	and Navigatio	n Systems					
		Subject	t		Category	ECTS				
S1 WUT	Reference sys	tems for navigat	ion		Obligatory	2				
S1 WUT	Mobile and N	avigational Cart	ography		Obligatory	3				
S1 WUT	Satellite Navi	gation Systems			Obligatory	3				
S1 WUT	Imagen recog	nition and deep	machine	learning	Obligatory	4				
		language with n			Obligatory	2				
S1 WUT	Selected prob	lems of stochast	ic data a	nalysis	Obligatory	4	П			
	Standards for				Obligatory	1	Ħ			
	Modern Photo				Obligatory	3	П			
		rnational econo	mic law a	and intellectua		1	П			
_	Geophysics				Obligatory	2	Н			
	Mathematics				Obligatory	3	Н			
		ons of physical g	Toodocy 2	and goodynami		2	Н			
31 WU1	Serected Secti	ons of physical §	geodesy a	ECTS to obtain		30	Н			
				EC13 to obtain	11	30	Н			-
							H			
		MASTER Mobile N	Manni	and Navierti	n Customa		Н			
	52-		11 0	anu Navigatioi		FOTO	Н			
C2 \\// IT	Coodotic	Subject cortography doc			Category	ECTS	H			-
				UII		2	Н			-
		transport econor				2	Н			
		vigation Systems	5		Obligatory	4	Ш			
	Spatial analy				Obligatory	2	Ш			
S2 WUT	English for ge	omatics			Foreign lang		Ш			
S2 WUT	Modern meas	uring instrumen	ts /		Elective	2	Ш			
S2 WUT	Surveying ser	vices of investme	ent /🛭		Elective	2				
	Building Info	rmation Modellir	ng /⊡		Elective	2	П			
	Robustness o	f observation sys	tems to g	gross errors2			П			
S2 W/LIT	Application o	f aerial and sate	llite nho	ngramm	Elective	2	Ħ			
	Augmented Re			.08	Elective	2	H			
						_	H			
	Indoor naviga				Elective	2	Ш			
		ion and 3D data	processi	ng	Obligatory	3	Ш			
	3D city model				Obligatory	2	Ш			
		of navigation ap		S	Obligatory	3	Ш			
		ing technologies			Obligatory	4	Ш			
S2 WUT		localization and	d mappin	g (SLAM)	Obligatory	3	Ш			
	Spanish Lang	uage (B1)				4	Ш			
				ECTS to obtain	1	42	Ш			
							Ш	S3-MASTER		
							Ш	Subject	Category	ECT:
							Ш	Remote Sensing and Cartographic Updating (EF)	Compulsory	6
								Environmental Mapping and Modelling (EF)	Compulsory	6
								Techniques for Heritage and Architectural Documenta	Compulsory	6
								Sensor Georeferencing and Navigation (EF)	Compulsory	6
								Geospatial Apps in Mobile Devices (EF)	Compulsory	6
							П	Geomatic Applications in Geomarketing (EF)	Elective	6
								Programming for Geospatial Applications (EF)	Compulsory	6
							П		CTS to obtain	_
								_		1
							\vdash			
							Н	S4-MASTER		
							Н		Category	ECT
							Н	Subject	Category	ECT
							Н	Instrumentation for Spatial Data Acquisition	Elective	6
			-				Ш	Geovisualisation and 3D Modelling (EF)	Elective	6
							Ш	Geospatial Content Managers and Smart Cities (EF)	Elective	6
							Ш	Master thesis	Compulsory	18
							Ш	Er	CTS to obtain	36
							Ш			
					TOTAL	72			TOTAL	78

TOTAL ECTS at WUT = 72 ECTS. TOTAL ECTS at UPV = 78 ECTS. TOTAL = 150 ECTS. Learning track 2B: WUT-POLAND (Polish-taught specialization) to ETSIGCT-UPV.

Each box represents at least 30 ECTS.



Obligat 1 Obligat 3 Obligat 4 Obligat 2 Obligat 2 Obligat 2 Obligat 2 Obligat 2
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
ligat 2 ligat 2 ligat 2
Obligat 2
Obligation
Obligate 3
Obligate 2
ш
Obligate 4 FCTS to obtain 30
OC ORIGIN
Estate Mana
Category ECIS
Obligati 3 III
Geodesy for Local Development Obligat 2 Spatial Orientation of Images
2
igati 5 Ai
Obligat 5
Selected Aspects of Property Val Obligat 3 Image Processing Methods in Re
Economic Basis of Real Estate ValObligat 3 Hyperspectral Remote Sensing
Flortive 7 Human rights
clective 2 II
ם בוברוואם 7
Elective 2
-
Elective 1
٦,
Obligati 2
uata Obligati 2
Flactices III a lielu (MININO) Obligat 2 Flactices III a lielu (Conside Institute Institut
t (
Ł

3 2 1