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**Request for a Master's degree certificate in Erasmus Mundus Joint Master
„COPERNICUS MASTER IN DIGITAL EARTH“**

Curriculum 2025 (<https://www.plus.ac.at/wp-content/uploads/mitteilungsblatt/2025-0624-MA-CDE-V2.pdf>)

178. Curriculum for the Master's Degree Programme in "Copernicus Master in Digital Earth" (Curriculum 2025)

PRIOR TO SUBMISSION (All guidelines are available at [website DAS Faculty](#))

1. READ: [all guidelines to complete your study programme Copernicus Master in Digital Earth](#)
2. Ask the Examination Office to validate the data – submit signed transcripts by partner universities via Email to the Examination Office
3. Complete data of this form and submit it via email to the PLUS examination office.
 - a. Please attach (if any) confirmations from the PLUS together with this document. Notification(s) of PLUS Legal Department (copy) *Anrechnungsbescide für externe LV*).

to the Examination Office	
last name	first name(s)
address	nationality
date of birth	
(mobile) phone number	e-mail address
Date	signature, student

Curriculum for the Master's Degree in "Copernicus Master in Digital Earth"

module / course no.	Type & name of the courses	semester / term	ECTS	Grade	Date
COMPULSORY MODULES					
651_B1	ORIENTATION PROJECT		6		
651.010	UE: Copernicus in Digital Earth (EO*GI)	1 / WS	1		
651.011	UE: Spatial Thinking and Modelling	1 / WS	2		
651.012	UE: Career Development & ePortfolio	1 / WS	1		
651.013	UE: Scientific Methods and Writing	2 / SOSE	2		
	Last exam:		Grade point average: entered by the examination office		
651_B2	SPACE-TIME MODELS & REPRESENTATIONS		6		
856.232	PS: Cartographic Design & Geomedia	1 / WS	3		
856.282	PS: Advanced Cartography	2 / SoSe	3		
651.020	VO: Systems Thinking in Spatial Representations	1 / WS	3		
856.261	VO: Design of Geospatial Data Models and Services	1 / WS	3		
<i>Additional options identified by Responsible Body</i>					
856.286	PS: Spatio-temporal Data Analytics	1 / WS	3		
856.114	SE: GeoHumanitarian Action	1 / WS	4		
	Last exam:		Grade point average: entered by the examination office		
651_B3	DIGITAL EARTH OBSERVATION & TECHNOLOGIES		12		
856.231	PS: Advanced Remote Sensing	1 / WS	6		
856.285	UE: Digital Earth: Big Earth Data Concepts	1 / WS	3		
651.031	SE: Copernicus Hubs and Institutions	2 / SOSE	3		
	Last exam:		Grade point average: entered by the examination office		

651_B4	SPATIAL IMAGE ANALYSIS		6		
856.288	UE: Object-Based Image Analysis	1 / WS	3		
651.040	SE: Analysis and Modelling (Remote Sensing)	2 / SOSE	3		
	Last exam:		Grade point average: <i>entered by the examination office</i>		

module / course no.	Type & name of the courses	semester / term	ECTS	Grade	Date
651_B5	INTEGRATED APPLICATIONS		12		
856.252	PS: Practice: Software Development (GI)	1 / WS	3		
651.050 or 856.213	UE: Project Management	2 / SOSE	3		
651.051	PS: Practice Software Development (EO Python)	1 / WS	3		
651.052	IP: Application Development (Earth Observation)	2 / SOSE	6		
856.253	IP: Application Development (GIS)	1 / WS 2 / SOSE	6		
	Last exam:		Grade point average: <i>entered by the examination office</i>		
651_SIP	SHORT INTENSIVE PROGRAMMES		3 9		
<u>Curriculum § 7 Linked elective module (Wahlpflichtfach):</u> Students must complete a total of 3 ECTS. Students from the Geovisualisation and Geocommunication specialization track choosing the skills-based internship must complete a total of 9 ECTS.					
I have chosen the 12 ECTS skill-based internship			YES	NO	
I have chosen the 18 ECTS collaborative research / work placement			YES	NO	
651.060	IP: International Summer School I	2 / SOSE	3		
651.061	IP: International Summer School II	2 / SOSE	3		
BIP.004	IP: Blended Intensive Programme I (BIP)	2 / SOSE	6		
BIP.005	IP: Blended Intensive Programme II (BIP)	2 / WS	3		
BIP.006	IP: Blended Intensive Programme III (BIP)	2 / SOSE	3		
	Last exam:		Grade point average: <i>entered by the examination office</i>		

651_Geo VIS	GEOVISUALISATION AND GEOCOMMUNICATION (UPOL)		30		
MODULE	GEOVISUALISATION				
651.771	PS: Systematic Geovisualisation	3 / WS	6		
651.772	SE: Advanced Methods of Geovisualisation	3 / WS	6		
651.773	UE: Design in Geovisualisation	3 / WS	3		
	Last exam:		Grade point average: <i>entered by the examination office</i>		

module / course no.	Type & name of the courses	semester / term	ECTS	Grade	Date
MODULE	GEOCOMMUNICATION				
651.774	UE: Cognitive Cartography	3 / WS	3		
651.775	UE: Web Cartography	4 / SOSE	6		
	Last exam:		Grade point average: <i>entered by the examination office</i>		
	UPOL ELECTIVES				
651.776	UE: 3D Visualisation	3 / WS	3		
651.777	UE: Cartographic Project	3 / WS	3		
651.778	UE: Desktop Publishing in Cartography	3 / WS	3		
	Last exam:		Grade point average: <i>entered by the examination office</i>		
651_Geo DSc	GEODATA SCIENCE (UBS)		30		
MODULE	FUNDAMENTALS OF DATA SCIENCE				
651.781	UE: Machine Learning	3 / WS	6		
651.782	UE: Foundations of Deep Learning	3 / WS	3		
651.783	UE: Big Data	3 / WS	6		
	Last exam:		Grade point average: <i>entered by the examination office</i>		
MODULE	ARTIFICIAL INTELLIGENCE FOR EARTH OBSERVATION				
651.784	UE: Efficient Remote Sensing Image Processing	3 / WS	6		
651.785	UE: Deep Learning for Computer Vision	3 / WS	3		
651.786	IP: Geospatial Data Analytics Project	3 / WS	6		
	Last exam:		Grade point average: <i>entered by the examination office</i>		

module / course no.	Type & name of the courses	semester / term	ECTS	Grade	Date
651_FWF	ELECTIVE SUBJECTS at PLUS		6 12		
In the CDE programme students are to complete elective courses totalling 6 (12) ECTS points. GeoData Science specialization track students must complete electives during the first academic year (12 ECTS) when choosing the skills-based internships/work placement, and students choosing a collaborative research/work placement must complete a total of 6 ECTS electives during year one. GeoVIS specialization track students must complete 6 ECTS electives during the second year of studies in Olomouc at UPOL.					
651.990	UE: Deutsch für Geoinformatiker_innen	1 / WS	2		
856.251	VO: Basics of Software Development	1 / WS	3		
856.284	PS: Spatial Simulation	1 / WS	6		
856.241	PS: Methods in Spatial Analysis	1 / WS	3		
856.263	IP: SDI Services Implementation	1 / WS	6		
856.262	VO: Open GIS: Standards, Architectures and Services	1 / WS	3		
911.908	VO: Computer Vision (Advanced Image Processing and Computer Vision)	1 / WS	2,5		
911.909	PS: Computer Vision (Advanced Image Processing and Computer Vision)	1 / WS	2,5		
512.101	MOOC: Cartography	1 / WS	1		
856.062	MOOC: Spatial Data Science	1 / WS	1		
856.222	SE: Theory and Concepts of GIScience and Geoinformatics	1 / WS	3		
511.065	VO: Software Engineering	1 / WS	3		
511.065	PS Software Engineering	1 / WS	4		
856.242	SE: Analysis and Modeling	2 / SOSE	3		
911.235	VO: Machine Learning	2 / SOSE	2,5		
911.236	PS: Machine Learning	2 / SOSE	2,5		
911.935	VO: Advanced Machine Learning	2 / SOSE	3		
911.936	PS: Advanced Machine Learning	2 / SOSE	2		
856.263	IP: SDI Services Implementation	2 / SOSE	6		
856.222	SE: Theory and Concepts of GIScience and Geoinformatics	2 / SOSE	3		
856.233	UE: Multivariate Statistics	2 / SOSE	3		
856.234	PS: Spatial Statistics	2 / SOSE	3		
856.291	VP: Environmental compliance monitoring and reporting	2 / SOSE	3		

	Please add other electives				
	Last exam:		Grade point average: <i>entered by the examination office</i>		

module / course no.	Type & name of the courses	semester / term	ECTS	Grade	Date
651_WORK PLACEMENTS			12 18		
<u>Curriculum § 10 Work placement / internship:</u> The skills-based internship/work placement (12 ECTS) shall be pre-approved by the responsible body. A collaborative research/work placement (18 ECTS) must be confirmed by the responsible body until the end of semester one. It is twinned with a research-based Master's Thesis.					
651.093	PF: Skills-based internships	2 / SOSE	12		
651.094	PF: Collaborative Research Work Placement	2 / SOSE	6		
651.095	PF: Collaborative Research Work Placement	4 / SOSE	12		
	Last exam:		Grade point average: <i>entered by the examination office</i>		
651_MASTER'S THESIS			21		
<u>Joint supervision:</u> Follow CDE Master's Thesis guidelines and procedures.					
651.KAp	Master's exam <i>(entered by the examination office)</i>	4 / SOSE	3		
PAAV	Master's Thesis <i>(entered by the examination office)</i>	4 / SOSE	18		
	Last exam:		Grade point average: <i>entered by the examination office</i>		