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

[Curriculum 2023](#)

92. Curriculum for Master's Degree Programme "Copernicus Master in Digital Earth" at the University of Salzburg (Version 2023)

**PRIOR TO SUBMISSION:**

1. Enter all specialization track (GeoData Science or GeoVisualisation & Geocommunication) completed courses (grades) in PLUSonline &
2. ask the Examination Office to validate the data – submit signed transcripts by partner universities via Email to the Examination Office
  - [Guideline Course Amendment for Copernicus Master \(November 2020 – german version\)](#)
  - All guidelines are available at [website of the Examination Office](#)

Please attach (if any) confirmations from the PLUS together with this document:

- Notification(s) of PLUS Legal Department (copy) *Anrechnungsbescheide für externe LV*; see <sup>(a)</sup>procedure course recognition

**to the Examination Office**

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

certificates returned on:

\_\_\_\_\_

date

\_\_\_\_\_

signature

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

module / course no.	Name of the courses	semester / term	ECTS	Grade	Date
<b>COMPULSORY MODULES</b>					
<b>651_B1</b>	<b>ORIENTATION PROJECT</b>		<b>6</b>		
651.010	Copernicus in Digital Earth (EO*GI)	1 / WS	1		
651.011	Spatial Thinking and Modelling	1 / WS	2		
651.012	Career Development & ePortfolio	1 / WS	1		
651.013	Scientific Methods and Writing	2 / SS	2		
	<b>Last exam:</b>		<b>Grade point average:</b> <small>entered by the examination office</small>		
<b>651_B2</b>	<b>SPACE-TIME MODELS &amp; REPRESENTATIONS</b>		<b>6</b>		
856.132	Geovisualization and Advanced Cartography	2 / SS	6		
651.020	Systems Thinking in Spatial Representations	1 / WS	3		
651.021	Spatial Databases <sup>(a)</sup> (856.161 Design of Geospatial Data Models)	1 / WS	3		
	<b>Last exam:</b>		<b>Grade point average:</b> <small>entered by the examination office</small>		
<b>651_B3</b>	<b>DIGITAL EARTH OBSERVATION &amp; TECHNOLOGIES</b>		<b>12</b>		
651.030	Advanced Remote Sensing	1 / WS	6		
651.031	Copernicus Hubs and Institutions	2 / SS	3		
651.032	Digital Earth: Big Earth Data Concepts	1 / WS	3		
	<b>Last exam:</b>		<b>Grade point average:</b> <small>entered by the examination office</small>		
<b>651_B4</b>	<b>SPATIAL IMAGE ANALYSIS</b>		<b>6</b>		
856.908	Object-Based Image Analysis	1 / WS	3		
651.040	Analysis and Modelling (Remote Sensing)	2 / SS	3		
	<b>Last exam:</b>		<b>Grade point average:</b> <small>entered by the examination office</small>		

<sup>(a)</sup>procedure course recognition "Prüfungsanerkennung über PLUSonline": [Guideline for Course Recognition for Curricula 2016 \(German version\)](#)

module / course no.	Name of the courses	semester / term	ECTS	Grade	Date
<b>651_B5</b>	<b>INTEGRATED APPLICATIONS</b>		<b>12</b>		
651.050	Project Management	2 / SS	3		
651.051	Practice Software Development	2 / SS	3		
651.052	Application Development (Earth Observation)	2 / SS	6		
	<b>Last exam:</b>		<b>Grade point average:</b> <small>entered by the examination office</small>		
<b>651_SIP</b>	<b>SHORT INTENSIVE PROGRAMMES</b>		<b>3   9</b>		
<u>Curriculum § 7 Linked elective module (Wahlpflichtfach):</u> Students must complete a total of 3 ECTS. Students from the <b>Geovisualisation and Geocommunication specialization</b> 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	International Summer School I	1 / WS	3		
651.061	International Summer School II	2 / SS	3		
651.062	Blended Intensive Programme (BIP)	2 / SS	6		
512.100	Digital Earth Citizens (BIP) <sup>(a)</sup>	1 / WS	6		
	<b>Last exam:</b>		<b>Grade point average:</b> <small>entered by the examination office</small>		
<b>651_Geo VIS</b>	<b>GEOVISUALISATION AND GEOCOMMUNICATION (UPOL)</b>		<b>30</b>		
<b>MODULE</b>	<b>GEOVISUALISATION</b>				
651.771	Systematic Geovisualisation	3 / WS	6		
651.772	Advanced Methods of Geovisualisation	3 / WS	6		
651.773	Design in Geovisualisation	3 / WS	3		
	<b>Last exam:</b>		<b>Grade point average:</b> <small>entered by the examination office</small>		

<sup>(a)</sup>procedure course recognition "Prüfungsanerkennung über PLUSonline": [Guideline for Course Recognition for Curricula 2016 \(German version\)](#)

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



module / course no.	Name of the courses	semester / term	ECTS	Grade	Date
<b>651_WORK PLACEMENTS</b>			<b>12   18</b>		
<u>Curriculum § 10 Work placement / internship:</u> The <b>skills-based internship/work placement</b> (12 ECTS) shall be pre-approved by the responsible body. A <b>collaborative research/work placement</b> (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.					
651.090	Skills-based internships/practical	2 / SS	12		
651.091	Collaborative Research / Work Placement	2 / SS	6		
651.092	Collaborative Research / Work Placement	4 / SS	12		
	<b>Last exam:</b>		<b>Grade point average:</b> <i>entered by the examination office</i>		
<b>651_MASTER'S THESIS</b>			<b>21</b>		
<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 / SS	3		
PAAV	Master's Thesis <i>(entered by the examination office)</i>	4 / SS	18		
	<b>Last exam:</b>		<b>Grade point average:</b> <i>entered by the examination office</i>		