Category	Subcategory	Subject		edits Elective	Student	Semester Spring Fall	Required	Note
		Advanced Research Ethics	Compulsory 1	Elective	Year 1	Spring Fall	Credits	Intensive
Common Subjects at the Master Program		English in Science and Technology	1		1 / 2	0	7	Intensive
		Academic Presentation	1		1 / 2	0		Intensive
		Master Research 1	2		1	0		
		Master Research 2 Basics for Management of Chemicals	2	1	2 1 / 2	0		Intensive
		Safety and Health for Scientific Experiments and Fieldworks		1	1/2 0		12 or more	Intensive
		Advanced Data Science		1	1 / 2			
		Advanced Seminar on SDGs		1	1 / 2	0		
		Intellectual Property		1	1 / 2	0		
Common		Advanced Seminar A		3	11	0		Intensive
Subjects of latural Science		Advanced Seminar B Advanced Seminar C		3	1	0 0		Intensive
		Advanced Seminar C		3	2 2			Intensive
		International Academic Seminar		1	1 / 2			*1
		Off-campus Training 1		1	1	Ö		*2
		Off-campus Training 2		1	2	0		*2
		Internship		1	1 / 2	0		Intensive
		Advanced Quantum Mechanics		2	1 / 2	0		Every other
		Advanced Condensed Matter Physics		2	1 / 2	0		Every other
		Advanced Cosmology Physics of Liquid Matter		2 2	1 / 2	0		Every other Every other
		Optical Physics		2	1 / 2	0	-	Every other
Specialized Subject	h y s	Advanced Statistical Physics		2	1/2	0		Every other
		Galactic Astrophysics		2	1 / 2	0		Every other
		Space Plasma Physics		2	1 / 2	0		Every other
		High Energy Astrophysics		2	1 / 2	0		Every other
		Advanced Topics on Radio Interferometers		2	1 / 2	0		Inter-Univ.
		Galactic Radio Astronomy Advanced Theory of Astrophysics 1		2 2	1 / 2	0		Inter-Univ. Inter-Univ.
		Advanced Mechanics		2	1 / 2	0		mitor Offiv.
		Advanced Electromagnetism		2	1	0		
		Basic Study for Electromagnetic Waves		2	1	0		
		Advanced Geology A		2	1 / 2	0		Every other
		Advanced Geology B		2	1 / 2	0		Every other
		Evolutionary Paleobiology A		2	1 / 2	0		Every other
	a r t	Evolutionary Paleobiology B Advanced Petrology and Mineralogy		2 2	1 / 2	0		Every other
		Theoretical Mineral Physics A		2	1 / 2	0		Every other
		Theoretical Mineral Physics B		2	1 / 2	0		Every other
		Advanced Geophysics A		2	1 / 2	0		Every other
	S	Advanced Geophysics B		2	1 / 2	0		Every other
	C	Earth and Planetary Tectonics		2	1 / 2	0		
	i e n c e s	Properties of Earth and Planetary Materials		2	1 / 2	0		
		Introduction to Atmospheric and Ocean Sciences		2	1 / 2	0		
		Ocean Dynamics Global Environmental Changes		2	1 / 2	0		
		Advanced Practice on Earth Sciences A		2 2	1 / 2	0		
		Advanced Practice on Earth Sciences B		2	1	0		
		Advanced Practice on Earth Sciences C		2	2	0		
		Presentation Practice in a conference on Earth Sciences A		1	1	Ó		
		Presentation Practice in a conference on Earth Sciences B		1	2	0		
		Advanced Solid State Inorganic Chemistry A		1	1 / 2	0		
		Advanced Solid State Inorganic Chemistry B		1	1/2	0		Every other
		Advanced Quantum Chemistry A Advanced Quantum Chemistry B		1	1 / 2	0		Every other
		Chemical Kinetics and Dynamics		1	1 / 2	0		Every other
		Solid State Properties		2	1/2	0		, 501101
		Advanced Chemistry of Electronic Properties		2	1 / 2	0		Every other
	h	Advanced Bio-Analytical Chemistry A		1	1 / 2	0		Every other
	e m	Advanced Bio-Analytical Chemistry B		1	1 / 2	0		Every other
	i	Advanced Organic Analytical Chemistry A		1	1 / 2	0	<6 or more>	Intensive
	S	Advanced Organic Analytical Chemistry B Advanced Organic Chemistry A		1	1 / 2	0	-	Intensive
	t r	Advanced Organic Chemistry A Advanced Organic Chemistry B		1	1 / 2	0		Every other Every other
	y y	Advanced Organic Chemistry C		1	1 / 2	0		Every other
		Advanced Organic Chemistry D		1	1/2	0	1	Every other
		Bioenergetics		2	1 / 2	0		Every other
		Advanced Nucleic Acid Chemistry		2	1 / 2	0		Every other
		Advanced Biomolecular Science		2	1 / 2	0		
		Quantitative Environmental Analytical Chemistry		2	1 / 2	0		
		Environmental Behavior of Toxic Chemicals	-	2	1 / 2	0		Every other
	B i o	Plant Cell Structure and Function		2	1/2	0		Every other
		Functional Plant Physiology Mechanisms of Development	-	2 2	1 / 2	0		Every other Every other
		Evolutionary Morphology		2	1 / 2	0	1	Every other
		Molecular and Functional Biology		2	1 / 2	0	(6 or more)	Every other
		Aquatic Ecology		2	1 / 2	Ö		Every other
		Evolutionary Ecology		2	1 / 2	0		Every other
	g	Environmental Molecular Toxicology		2	1 / 2	0		Every other
	у	Aquatic Microbiology		2	1 / 2	0	1	Every other
		Bioinformatics		2	1 / 2			Every other
	l	Advanced Research in Biology A		2	1	0	1	ĺ

Requirements for Completing the Master's Program (Natural Science)

^{1.} Having acquired 30 credits or more including 7 compulsory credits of the common subjects at the master program, 12 credits or more credits from the natural science common subjects, and 6 credits or more from the specialized subjects in the studied field.

2. Having completed the master dissertation review and pass the final exam.