Matrix of learning objectives and outcomes – 7M07206 - Geology and exploration of solid mineral deposits (master)

Learning Outcomes	Modules
O1 Demonstrate an advanced and integrated understanding of a complexbody of knowledge in one or more discipline areas by generating substantial contribution to knowledge through the use of appropriate research principles and methods	M2 «Module of professional geological training» M3 «Practice - oriented module» M4 «Research module»
O2. Apply critical analysis and reflection to ethically research, synthesize and evaluate complex information, problems, concepts, interpretations and theories to demonstrate cognitive and technical skills in a body of knowledge or practice.	M1 «Module of social disciplines» M2 «Module of professional geological training» M3 «Practice - oriented module»
O3. Effectively disseminate research outcomes to a variety of audiences using highly developed communication skills and work productively within a team of experts in the field.	M1 «Module of social disciplines» M2 «Module of professional geological training» M3 «Practice - oriented module»
O4. Demonstrate autonomy, expert judgement, adaptability, initiative, resilience and responsibility as a practitioner or learner.	M1 «Module of social disciplines» M2 «Module of professional geological training» M3 «Practice - oriented module»
O5. MS students will write at one research proposal that presents a testable hypothesis, outlines the types of data needed to test the hypothesis, and describes how the collected data will be used to test the hypothesis in geological field. Describe, synthesize, and interpret the results of a scientific investigation orally and in writing.	M3 «Practice - oriented module» M4 «Research module» M5 «Final attestation module»
O6. Carry out independent research in one or more subfields of earth and planetary sciences, using appropriate field, experimental, analytical, and/or computational methods	M3 «Practice - oriented module» M4 «Research module» M5 «Final attestation module»