



MASTER (LM) DEGREE COURSE IN

WATER AND GEOLOGICAL RISK ENGINEERING

Study programme for students enrolled in the academic year 2025-2026

1st YEAR	
MANDATORY UNITS	CREDITS
Geological and geotechnical engineering	9
River hydraulics from the hillslopes to the estuary	6
Hydrology and climate: modelling and change	9
Fluvial-coastal dynamics and hazard	6
Remote sensing for water resources	9
Engineering geomorphology	6
River basin modelling: forecasting and prediction	9
OTHER MANDATORY ACTIVITIES (*)	
Italian language A2	3
English language B2 (productive skills)	3
6 ADDITIONAL FREE-CHOICE CREDITS	
Groundwater hydrology	6
Coastal management and protection	6
Environmental Economics and Resource Valuation	6
2nd YEAR	
MANDATORY UNITS	CREDITS
Water and geological risk mitigation	9
Drainage and irrigation under a changing climate	9
Valuation and Management of Water-Related Risks	6
Water scarcity, agroecosystems and pollutants	6
6 ADDITIONAL FREE-CHOICE CREDITS	
Underground fluids energy and environment	6
Water and Health	6

FINAL THESIS/DISSERTATION	21
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ANY FURTHER NOTES

(*) LANGUAGE SKILLS: Compulsory one of the two: native Italian speakers students must take ENGLISH LANGUAGE B2, other students must take ITALIAN LANGUAGE A2.
The Master degree course takes place in Rovigo. Attendance at teaching activities is not compulsory but strongly recommended.