

STUDY PLAN MSc IN ENVIRONMENTAL METEOROLOGY A.Y. 2024-25 (ex D.M. 270/04)



			13	'EAR								
			I SEMESTER	- Trento campus								
Code	No.	Courses	Lecturers	SSD	CFU	В	С	D	Ε	F	Hours	Notes
140531	1	Introduction to meteorology and climatology*		FIS/06	6	6					60	
140532	2	Enviromental Fluid Mechanics		ICAR/01	9	9					90	
140533	3	Environmental measurements		GEO/12	9	9					90	
140534	4	Environmental physical chemistry		CHIM/03	6	6					60	
			TC	T Mandatory CFU I sem.	30	30	0	0	0	0		
			II SEMESTER	- Trento campus								
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Code	No-	Courses	Lecturers	SSD	CFU	В	С	D	Ε	F	Hours	Notes
		Courses Atmospheric boundary layer and turbulence			CFU 6	B	С	D	Ε	F	Hours 60	Notes
140571	5			SSD		_	C	D	Ε	F		Notes
Code 140571 140536 140587	5 6	Atmospheric boundary layer and turbulence		SSD FIS/06	6	_		D	Ε	F	60	Notes
140571 140536	5 6 7	Atmospheric boundary layer and turbulence Numerical methods for environmental processes		SSD FIS/06 MAT/08	6	_	6	D	Ε	F	60 60	Notes
140571 140536 140587	5 6 7	Atmospheric boundary layer and turbulence Numerical methods for environmental processes Hydrology**		SSD FIS/06 MAT/08 ICAR/02	6 6 6	6	6	D	Ε	F	60 60 60	Notes
140571 140536 140587	5 6 7	Atmospheric boundary layer and turbulence Numerical methods for environmental processes Hydrology**	Lecturers	SSD FIS/06 MAT/08 ICAR/02	6 6 6 6	6	6			F	60 60 60	Notes

I SEMESTER Innsbruck campus												
Code	No.	Courses	Lecturers	SSD	CFU	В	С	D	Ε	F	Hours	Notes
140539	9	Atmospheric radiation and remote sensing		FIS/06	5	5					50	
140542	10	Reading, writing and presenting scientific contents			3					3	30	
40540	11	Atmospheric chemistry and biogeochemistry		BIO/10	6	6					60	
140541	12	Dynamical and synoptic meteorology		FIS/06	6	6					60	
			TO	T Mandatory CFU II sem.	20	17	0	0	0	3		
			II SEMESTER Trent	to/Innsbruck campus								
		MSc. Thesis and courses		SSD	CFU	В	С	D	Ε	F	Hours	Notes
140543		MSc. Thesis			30				30			
			TO	T Mandatory CFU II sem.	30	17	0	0	30	0		
		Elective courses			16			16				
·		_	·	Total I and II Year	120		12	16	30	^	,	•

ELECTIVE COURSES										
	Elective courses	Lecturers	SSD	16		10	6		160	Notes
	1st Year - II Semester - Trento campus									
140585	Air pollution modelling		FIS/06	6		6			60	
140586	Hydrological modelling		ICAR/02	6		6			60	
140607	Introduction to climate change		FIS/06	6		6			60	
140575	Tropical meteorology and climate		FIS/06	6		6			60	

	2nd Year - I and II Semester - Innsbruck campus***									
140564		Physics of the Climate System	FIS/06	5		5	5	0		
140566		Numerical Modelling of Weather and Climate	MAT/08	6		6	6	0		
140567	ē	Climate and Cryosphere Modelling	FIS/06	3		3	3	0		
140714	est	Advanced weather forecasting course	GEO/12	5		5	4	5		
140574	em	Scientific Programming	ING-INF/05	5		5	5	0		
140565	S	Mountain Meteorology	FIS/06	5		5	4	5		
140606		Advanced Topics: Aviation Meteorology (alternate years)	FIS/06	4		4	3	0		
140570		Advanced Topics: Avalanches (alternate years)	ICAR/01	6		6	6	0		
140568		Geostatistics	GEO/12	5		5	4	5		
140572	ter	Cryosphere in the climate system	ICAR/02	5		5	5	0		
140715	es	Advanced Topics: Boundary Layer Meteorology	FIS/06	3		3	3	0		
140716	en	Advanced Topics: Visualizing scientific data	FIS/06	3		3	3	0		
140717	_ s	Advanced Topics: Numerical models in glaciology	FIS/06	3		3	3	0		
140718		Advanced Topics: Urban Meteorology	FIS/06	3		3	3	0		

^{*} Students holding a BSc Degree in Ingegneria per l'Ambiente e il Territorio from the University of Trento who have taken "Fondamenti di meteorologia e climatologia" may substitute this course with one of the FIS/06 elective courses, i.e. either "Air pollution modelling", or "Introduction to climate change", or "Tropical meteorology and climate". This option if offered also to students holding other BSc who have taken basics of meteorology at BSc level: the modified study plan needs to be passed by the Education Commiteee, upon checking the contents of meteorology exams taken at BSc level.

^{**} Students holding a BSc degree in Ingegneria per l'Ambiente e il Territorio from the University of Trento will have "Hydrology" by default substituted with "Hydrological modelling" in their study plan. This option if offered also to students holding other BSc who have taken basics of hydrology at BSc level: the modified study plan needs to be passed by the Education Commiteee, upon checking the contents of hydrology exams taken at BSc level.

^{***} the list of elective courses at the University of Innsbruck may be subject to changes from one Academic year to the other. When submitting the choice of elective courses in their study plan, students are recommended to check the most updated list of available courses at the web-page https://lfuonline.uibk.ac.at/public/lfuonline_lv.home [path: Faculty of Geo- and Atmospheric Sciences/Master's Programme Environmental Meteorology according to the curriculum 2018 (120 ECTS-Credits)/2nd Year of Study (University of Innsbruck)/Compulsory Modules (30 ECTS-Credits)