

MSc on "Forestry and Environmental Sciences" (two years study plan - starting 2019/20)
Laurea Magistrale in "Scienze Forestali e Ambientali" (CLASSE LM-73)

Curriculum "Forests and Environment"

Code	Subjects titles (exams) and modules	Credits (CFU)	Class activities (hours)	Practical activities (hours)	Total supervised hours	Year	Semester	Principal Lectures
FIRST YEAR								Active 2019/20
17926	Forest ecophysiology	6	40	8	48	1	1 st	De Angelis
17697	Forest genetics and Biotechnology	12				1		
	<i>Forest biotechnology</i>	6	40	8	48		1 st	Kuzminsky
	<i>Forest genetics</i>	6	44	4	48		1 st	Ciaffi
17927	Monitoring soil quality	6	44	4	48	1	1 st	Moscattelli
17931	Principles of remote sensing and modeling in forestry	6	40	8	48	1	1 st	Papale
17928	Research support for sustainable forest management	6	40	8	48	1	1 st	Barbati
17698	Advanced forest pathology	6	40	8	48	1	2 nd	Vannini
118552	Silviculture II and Wood products	13				1		
	<i>Silviculture of Mediterranean and temperate forests</i>	7	44	12	56		2 nd	Sabatti
	<i>Wood-based biocomposites</i>	6	40	8	48		2 nd	Romagnoli
17560	Technical english language	4			32	1	2 nd	
SECOND YEAR								Active 2020/21
17700	Forest management planning	7	48	8	56	2	3 rd	Portoghesi
17930	Forest economics and policy	6	44	4	48	2	3 rd	Carbone F.
17929	Applied hydrology	6	40	8	48	2	4 th	Grimaldi
17703	Vertebrates of forest ecosystems	6	40	8	48	2	4 th	Zapparoli
14366	Free selection of disciplines (AFS)	12				1-2	1 st - 4 th	
15912	Internship in research laboratories, professional enterprises, public administrations and other organisations	4			100 registered working hours	1-2	free	
17559	Thesis - written in English or Italian	20			500 working hours (average)	2	3 rd - 4 th	

Total credits 120

Additional extracurricular subjects, which can be selected to complete the career (as AFS)

Code	Subjects titles (exams) and modules	Credits (CFU)	Class activities (hours)	Practical activities (hours)	Total supervised hours	Year	Semester	Principal Lectures
								Active 2019/20
118546	Phytotechnologies to protect water and soil in urban areas	6	44	4	48	n.a.	1 st	De Angelis
118554	Methodological and technical tools for carbon observation system – ICOS	6	24	24	48	n.a.	2 nd	D. Papale
118555	Propagation of plants and pathogens control	6				n.a.	2 nd	
	<i>Micropropagation of plants</i>	3	12	12	24	n.a.	2 nd	E. Kuzminsky
	<i>Pathogens control in plant propagation</i>	3	12	12	24	n.a.	2 nd	A. Vettraino
118553	Monitoring Ecosystem Services	6	24	24	48	n.a.	2 nd	R. Valentini
118547	Trees and plants to improve air quality of urban areas	6	44	4	48	n.a.	2 nd	Calfapietra

Curricular subjects, which can be selected only by incoming students under mobility programmes or by students enrolled in other MSc courses at UNITUS, or for single courses enrolment

Code	Subjects titles (exams) and modules	Credits (CFU)	Class activities (hours)	Practical activities (hours)	Total supervised hours	Year	Semester	Principal Lectures
								Active 2019/20
118558	Forest genetics	6	44	4	48	n.a.	1 st	Ciaffi
118556	Silviculture of Mediterranean and temperate forests	6	44	4	48	n.a.	2 nd	Sabatti
118550	Wood-based biocomposites	6	40	8	48	n.a.	2 nd	Romagnoli

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Curriculum Mediterranean Forestry and Natural Resources Management (MEDFOR)

1st year in partner Universities* - 2nd year in Viterbo / multiple degrees

*MEDFOR consortium (Portugal, Spain, Turkey, Italy) - multiple degrees

Code	Subjects titles (exams) and modules - corresponding first year exams -	CFU	Class activities (hours)	Practical activities (hours)	Total supervised hours	Year	Semester	Principal Lectures
FIRST YEAR								Active 2019/20
	Different subjects in the first year Universities (Univ Padova IT; Univ Lisbon P; Univ Lleida SP)	42						
	Two e-learning transversal courses	9						
	Common winter courses at the University of Valladolid	9						
SECOND YEAR								Active 2020/21
	Five subjects selected by the student from the following list	30						
16365	Forest biotechnology	6	40	8	48	2	3 rd	Kuzminsky
16340	Forest ecophysiology	6	40	8	48	2	3 rd	De Angelis
16341	Principles of remote sensing and modeling in forestry	6	40	8	48	2	3 rd	Papale
16342	Research support for sustainable forest management	6	40	8	48	2	3 rd	Barbati
16343	Forest tree cropping	6	36	12	48	2	3 rd	Sabatti
16344	Monitoring soil quality	6	44	4	48	2	3 rd	Moscatelli
15912	Internship in research laboratories, professional enterprises, public administrations and other organisations	4			100 registered working hours	1-2	free	
16355	Thesis - written in English	26			650 working hours (average)	2	4 th	

Total credits 120

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Curriculum Management and design of Urban Green Infrastructures (UGI)

Viterbo (UNITUS) - Moscow (RUDN) / double degree

Code	Subjects titles (exams) and modules	CFU	Class activities (hours)	Practical activities (hours)	Total supervised hours	Year	Semester	Principal Lectures
FIRST YEAR for UNITUS students at VITERBO								Active 2019/20
16341	Principles of remote sensing and modelling in forestry	6	40	8	48	1	1 st	Papale
17123	Soil pollution and monitoring	6	44	4	48	1	1 st	De Cesare
118551	Research support for sustainable forest management	6	40	8	48	1	1 st	Barbati
17125	Urban forestry	6	44	4	48	1	1 st	Valentini R
17122	Phytotechnologies for remediation and improvement of urban environment	12				1		
	<i>Phytotechnologies to protect water and soil in urban areas</i>	6	44	4	48		1 st	De Angelis
	<i>Trees and plants to improve air quality of urban areas</i>	6	44	4	48		2 nd	*
17126	Urban hydrology	6	40	8	48	1	2 nd	Grimaldi
SECOND YEAR for UNITUS students at MOSCOW								Active 2020/21
17124	Phytopathology and Plant Protection	6	40	8	48	2	1 st	E. Pakina (RUDN)
118544	Urban ecology	6	40	8	48	2	1 st - 2 nd	V. Vasnev (RUDN)
118545	Data analysis and statistics	8	56	8	64	2	1 st - 2 nd	V. Vasnev (RUDN)
17128	Landscape design, architecture and city-planning	8	56	8	64	2	1 st - 2 nd	T. Zhukova (RUDN)
118543	International regulation in city planning and environmental protection	6	40	8	48	2	2 nd	V. Plyushchikov & M. De Martino (RUDN)
14366	Free selection of disciplines (AFS) *	12				1-2	1 st - 4 th	
15912	Internship in research laboratories, professional enterprises, public administrations and other organisations	4		100 registered working hours		1-2	free	
18454	Thesis - written in English **	28		700 working hours (average)		2	3 rd - 4 th	
Total credits 120								

Extracurricular subjects, which can be selected to complete the career (as AFS) at UNITUS

Code	Subjects titles (exams) and modules	Credits (CFU)	Class activities (hours)	Practical activities (hours)	Total supervised hours	Year	Semester	Principal Lectures
								Active 2019/20
118554	Methodological and technical tools for carbon observation system – ICOS	6	24	24	48	<i>n.a.</i>	2 nd	D. Papale
118553	Monitoring Ecosystem Services	6	24	24	48	<i>n.a.</i>	2 nd	R. Valentini
118555	Propagation of plants and pathogens control	6				<i>n.a.</i>	2 nd	
	<i>Micropropagation of plants</i>	3	12	12	24	<i>n.a.</i>	2 nd	E. Kuzminsky
	<i>Pathogens control in plant propagation</i>	3	12	12	24	<i>n.a.</i>	2 nd	A. Vettrano

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Curriculum Management and design of Urban Green Infrastructures (UGI)

Moscow (RUDN) - Viterbo (UNITUS) / double degree

Code	Subjects titles (exams) and modules	CFU	Class activities (hours)	Practical activities (hours)	Total supervised hours	Year	Semester	Principal Lectures
FIRST YEAR for RUDN students at MOSCOW								Active 2019/20
17124	Phytopathology and Plant Protection	6	40	8	48	2	1 st	E. Pakina (RUDN)
118544	Urban ecology	6	40	8	48	2	1 st - 2 nd	V. Vasenev (RUDN)
118545	Data analysis and statistics	8	56	8	64	2	1 st - 2 nd	V. Vasenev (RUDN)
17128	Landscape design, architecture and city-planning	8	56	8	64	2	1 st - 2 nd	T. Zhukova (RUDN)
118543	International regulation in city planning and environmental protection	6	40	8	48	2	2 nd	V. Plyushchikov & M. De Martino (RUDN)
SECOND YEAR for RUDN students at VITERBO								Active 2020/21
16341	Principles of remote sensing and modelling in forestry	6	40	8	48	1	1 st	Papale
17123	Soil pollution and monitoring	6	44	4	48	1	1 st	De Cesare
118551	Research support for sustainable forest management	6	40	8	48	1	1 st	Barbati
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17122	Phytotechnologies for remediation and improvement of urban environment	12				1		
	<i>Phytotechnologies to protect water and soil in urban areas</i>	6	44	4	48		1 st	De Angelis
	<i>Trees and plants to improve air quality of urban areas</i>	6	44	4	48		2 nd	*
17126	Urban hydrology	6	40	8	48	1	2 nd	Grimaldi
14366	Free selection of disciplines (AFS) *	12				1-2	1 st - 4 th	
15912	Internship in research laboratories, professional enterprises, public administrations and other organisations	4			100 registered working hours	1-2	free	
18454	Thesis - written in English **	28			700 working hours (average)	2	3 rd - 4 th	
Total credits		120						

Extracurricular subjects, which can be selected to complete the career (as AFS) at RUDN

Scientific writing skills	6							
Business English	6							

Total 12

Thesis at RUDN - written in English ()**

Scientific research and thesis preparation	11
Practice - Scientific research and thesis preparation	8
Practice - Preparation and defence of the thesis	6
State exam	3

Total 28