

**MSc on "Forestry and Environmental Sciences" (two years study plan - starting 2021/22)**  
**Laurea Magistrale in "Scienze Forestali e Ambientali" (CLASSE LM-73)**

**Curriculum "Forests and Environment"**

Code	Subjects titles (exams) and modules	SSD	Credits (CFU)	Class activities (hours)	Practical activities (hours)	Total supervised hours	Course type	Year	Semester	Principal Lectures	
<b>FIRST YEAR</b>										<b>Active 2021/22</b>	
17926	<b>Forest ecophysiology</b>	AGR/05	6	40	8	48	S	1	1 <sup>st</sup>	De Angelis	
17697	<b>Forest genetics and Biotechnology</b>		12				M	1			
	<i>Forest biotechnology</i>	AGR/05	6	40	8	48			1 <sup>st</sup>	Kuzminsky	
	<i>Forest genetics</i>	AGR/07	6	44	4	48			1 <sup>st</sup>	Ciaffi	
17927	<b>Monitoring soil quality</b>	AGR/13	6	44	4	48	S	1	1 <sup>st</sup>	Moscatelli	
118981	<b>Monitoring Terrestrial Ecosystems Carbon Cycle (ICOS)</b>	AGR/05	6	24	24	48	S	1	1 <sup>st</sup>	Papale	
118982	<b>Remote sensing in forest resource management</b>	AGR/05	6	24	24	48	S	1	1 <sup>st</sup>	Barbati	
118983	<b>Invasive forest pathogens and global changes</b>	AGR/12	6	40	8	48	S	1	2 <sup>nd</sup>	Vannini	
118552	<b>Silviculture II and Wood products</b>		13				M	1			
	<i>Silviculture of Mediterranean and temperate forests</i>	AGR/05	7	44	12	56	S		2 <sup>nd</sup>	Sabatti	
	<i>Wood-based biocomposites</i>	AGR/06	6	40	8	48	S		2 <sup>nd</sup>	Romagnoli	
118984	<b>Technical english language</b>		4		32			1	2 <sup>nd</sup>		
<b>SECOND YEAR</b>										<b>Active 2022/23</b>	
17700	<b>Forest management planning</b>	AGR/05	7	48	8	56	S	2	3 <sup>rd</sup>	Portoghesi	
17930	<b>Forest economics and policy</b>	AGR/01	6	44	4	48	S	2	3 <sup>rd</sup>	Carbone F.	
17703	<b>Vertebrates of forest ecosystems</b>	BIO/05	6	40	8	48	S	2	3 <sup>rd</sup>	Zapparoli	
17929	<b>Applied hydrology</b>	AGR/08	6	40	8	48	S	2	4 <sup>th</sup>	Grimaldi	
14366	<b>Free selection of disciplines (AFS)</b>		12					1-2	1 <sup>st</sup> - 4 <sup>th</sup>		
15912	<b>Internship in research laboratories, professional enterprises, public administrations and other organisations</b>		4		100 registered working hours			1-2	free		
17559	<b>Thesis - written in English or Italian</b>		20		500 working hours (average)			2	3 <sup>rd</sup> - 4 <sup>th</sup>		
<b>Total credits</b>			<b>120</b>								

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Additional extracurricular subjects, which can be selected to complete the career (as AFS)										Active 2021/22
Code	Subjects titles (exams) and modules	SSD	Credits (CFU)	Class activities (hours)	Practical activities (hours)	Total supervised hours	Course type	Year	Semester	Principal Lectures
118985	Management of forests and agroforest soils	AGR/14	6	24	24	48	S	1	1 <sup>st</sup>	T. Chiti
118546	Phytotechnologies to protect water and soil in urban areas	AGR/05	6	44	4	48	S	1	1 <sup>st</sup>	De Angelis
119269	Micropropagation of woody plants	AGR/05	6	24	24	48	S	1	2 <sup>nd</sup>	E. Kuzminsky
118553	Monitoring Ecosystem Services	AGR/05	6	24	24	48	S	1	2 <sup>nd</sup>	R. Valentini
119268	Propagation of woody plants and disease management	AGR/05	6				M	1		
	<i>Propagation of woody plants</i>	AGR/05	2	8	8	16			2 <sup>nd</sup>	E. Kuzminsky
	<i>Disease management in plant propagation</i>	AGR/12	4	16	16	32			2 <sup>nd</sup>	A. Vettrano
118547	Trees and plants to improve air quality of urban areas	AGR/05	6	44	4	48	S	1	2 <sup>nd</sup>	Guidolotti

Curricular subjects, which can be selected <u>only</u> by incoming students under mobility programmes or by students enrolled in other MSc courses at UNITUS, or for single courses enrolment										Active 2021/22
118558	Forest genetics	AGR/07	6	44	4	48	S	<i>n.a.</i>	1 <sup>st</sup>	Ciaffi
118556	Silviculture of Mediterranean and temperate forests	AGR/05	6	44	4	48	S	<i>n.a.</i>	2 <sup>nd</sup>	Sabatti
118550	Wood-based biocomposites	AGR/06	6	40	8	48	S	<i>n.a.</i>	2 <sup>nd</sup>	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 -	SSD	CFU	Class activities (hours)	Practical activities (hours)	Total supervised hours	Course type	Year	Semester	Principal Lectures
<b>FIRST YEAR</b>										<b>Active 2021/22</b>
17705	<b>Forest management planning</b>	AGR/05	6	40	8	48	S	1	1 <sup>st</sup>	Portoghesi
17701	<b>Forest economics and policy</b>	AGR/01	6	44	4	48	S	1	1 <sup>st</sup>	Carbone F.
118986	<b>Biological sciences for sustainable forest management</b>		12				M	1		
	<i>Vertebrates of forest ecosystems</i>	BIO/05	6	40	8	48			1 <sup>st</sup>	Zapparoli
	<i>Invasive forest pathogens and global changes</i>	AGR/12	6	40	8	48			2 <sup>nd</sup>	Vannini
17852	<b>Silviculture II and Wood products</b>		12				M	1		
	<i>Silviculture of Mediterranean and temperate forests</i>	AGR/05	6	44	4	48			2 <sup>nd</sup>	Sabatti
	<i>Wood-based biocomposites</i>	AGR/06	6	44	4	48			2 <sup>nd</sup>	Romagnoli
17702	<b>Applied hydrology</b>	AGR/08	6	40	8	48	S	1	2 <sup>nd</sup>	Grimaldi
14366	<b>Free selection of disciplines (AFS)</b>		12					1	1 <sup>st</sup> - 2 <sup>nd</sup>	
<b>SECOND YEAR</b>										<b>Active 2022/23</b>
16365	<b>Forest biotechnology</b>	AGR/05	6	40	8	48	S	2	3 <sup>rd</sup>	Kuzminsky
16340	<b>Forest ecophysiology</b>	AGR/05	6	40	8	48	S	2	3 <sup>rd</sup>	De Angelis
118987	<b>Monitoring Terrestrial Ecosystems Carbon Cycle (ICOS)</b>	AGR/05	6	24	24	48	S	1	3 <sup>rd</sup>	Papale
118988	<b>Remote sensing in forest resource management</b>	AGR/05	6	24	24	48	S	2	3 <sup>rd</sup>	Barbati
16343	<b>Forest tree cropping</b>	AGR/05	6	36	12	48	S	2	3 <sup>rd</sup>	Sabatti
16344	<b>Monitoring soil quality</b>	AGR/13	6	44	4	48	S	2	3 <sup>rd</sup>	Moscattelli
15912	<b>Internship in research laboratories, professional enterprises, public administrations and other organisations</b>		4			100 registered working hours		1-2	free	
16355	<b>Thesis - written in English</b>		26			650 working hours (average)		2	4 <sup>th</sup>	

**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	SSD	CFU	Class activities (hours)	Practical activities (hours)	Total supervised hours	Course type	Year	Semester	Lecturer
<b>FIRST YEAR for UNITUS students - SECOND YEAR for RUDN students</b>										<b>Active 2021/22</b>
118981	Monitoring Terrestrial Ecosystems Carbon Cycle (ICOS)	AGR/05	6	24	24	48	S	1	1 <sup>st</sup>	Papale
17123	Soil pollution and monitoring	AGR/13	6	40	8	48	S	1	1 <sup>st</sup>	De Cesare
118982	Remote sensing in forest resource management	AGR/05	6	24	24	48	S	1	1 <sup>st</sup>	Barbati
17125	Urban forestry	AGR/05	6	44	4	48	S	1	1 <sup>st</sup>	Valentini R
17122	Phytotechnologies for remediation and improvement of urban environment		12				M	1		
	<i>Phytotechnologies to protect water and soil in urban areas</i>	AGR/05	6	44	4	48			1 <sup>st</sup>	De Angelis
	<i>Trees and plants to improve air quality of urban areas</i>	AGR/05	6	44	4	48			2 <sup>nd</sup>	Guidolotti
17126	Urban hydrology	AGR/08	6	40	8	48	S	1	2 <sup>nd</sup>	Grimaldi
<b>SECOND YEAR for UNITUS students - FIRST YEAR for RUDN students</b>										<b>Active 2022/23</b>
17124	Phytopathology and Plant Protection	AGR/12	6	40	8	48	S	2	3 <sup>rd</sup>	E. Pakina (RUDN)
118544	Urban ecology	BIO/07	6	40	8	48	S	2	3 <sup>rd</sup> - 4 <sup>th</sup>	V. Vasenev/ K. Ivaschenko (RUDN)
118545	Data analysis and statistics	SECS-S/02	8	56	8	64	S	2	3 <sup>rd</sup> - 4 <sup>th</sup>	V. Vasenev/ K. Ivaschenko (RUDN)
17128	Landscape design, architecture and city-planning	ICAR/14	8	56	8	64	S	2	3 <sup>rd</sup> - 4 <sup>th</sup>	Ilya Mochalov (RUDN)
118543	International regulation in city planning and environmental protection	SECS-P/06	6	40	8	48	S	2	4 <sup>th</sup>	V. Plyushchikov & M. De Martino (RUDN)
14366	Free selection of disciplines (AFS) *		12					1-2	1 <sup>st</sup> - 4 <sup>th</sup>	
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	from 2 <sup>nd</sup>	

**Total credits**

**120**

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<b>Extracurricular subjects, which can be selected to complete the career (as AFS) at UNITUS</b>											Active 2021/22
Code	Subjects titles (exams) and modules	SSD	Credits (CFU)	Class activities (hours)	Practical activities (hours)	Total supervised hours	Course type	Year	Semester	Principal Lectures	
118985	<b>Management of forests and agroforest soils</b>	AGR/14	6	24	24	48	S	1	1 <sup>st</sup>	T. Chiti	
119268	<b>Propagation of woody plants and disease management</b>	AGR/05	6				M	1			
	<i>Propagation of woody plants</i>	AGR/05	2	8	8	16			2 <sup>nd</sup>	E. Kuzminsky	
	<i>Disease management in plant propagation</i>	AGR/12	4	16	16	32			2 <sup>nd</sup>	A. Vettraino	
118553	<b>Monitoring Ecosystem Services</b>	AGR/05	6	24	24	48	S	1	2 <sup>nd</sup>	R. Valentini	

<b>Extracurricular subjects, which can be selected to complete the career (as AFS) at RUDN *</b>											Active 2022/23
Code	Subjects titles (exams) and modules	SSD	Credits (CFU)	Class activities (hours)	Practical activities (hours)	Total supervised hours	Course type	Year	Semester	Principal Lectures	
	<b>Scientific writing skills</b>		6				S	2	2 <sup>nd</sup>	V. Vasenev/ K. Ivaschenko (RUDN)	
	<b>Business English</b>		6				S	2	2 <sup>nd</sup>	Tatiana Meer (RUDN)	
	<b>Total</b>		<b>12</b>								

**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
<b>Total</b>	<b>28</b>