

# Environmental and Plant Biotechnology

# Program 2019/20

No.	Courses	Hours				Hours per semester						ECTS per semester			Total ECTS
		total	lectures (L)	practicals (P)	seminars	1		2		3		1	2	3	
						L	P	L	P	L	P				
<b>A. General education courses</b>		<b>108</b>	<b>45</b>	<b>63</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>15</b>	<b>3</b>	<b>0</b>	<b>4</b>	<b>7</b>
1	Humanistic course in culture, art and tradition of the region	18	0	18		0	18					1			1
2	Foreign language	30	0	30		0	30					2			2
3	Environmental protection policy and intellectual property	45	30	15						30	15			3	3
4	Ethics in biotechnology	15	15	0						15	0			1	1
<b>B. Core courses</b>		<b>213</b>	<b>103</b>	<b>110</b>	<b>0</b>	<b>73</b>	<b>80</b>	<b>30</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>4</b>	<b>0</b>	<b>18</b>
5	Molecular biology	45	20	25		20	25					4			4
6	Plant and microbial proteomics	30	15	15		15	15					3			3
7	Physiology of stress in plants	45	20	25		20	25					4			4
8	Biostatistics	33	18	15		18	15					3			3
9	Genetic engineering	60	30	30				30	30				4		4
<b>C. Specialization courses</b>		<b>360</b>	<b>147</b>	<b>213</b>	<b>0</b>	<b>30</b>	<b>75</b>	<b>82</b>	<b>98</b>	<b>35</b>	<b>40</b>	<b>12</b>	<b>12</b>	<b>5</b>	<b>29</b>
10	Ecotoxicology	30	10	20		10	20					4			4
11	Instrumental analysis	45	0	45		0	45					4			4
12	Soil chemistry and microbiology	30	20	10		20	10					4			4
13	Bioremediation and soil reclamation	60	30	30				30	30				4		4
14	Crop improvement	60	30	30				30	30				4		4
15	Introduction to geomatics	30	10	20				10	20				2		2
16	Restoration ecology of post-industrial sites	30	12	18				12	18				2		2
17	Biotechnolgy of water, sewage and activated sludge	45	20	25						20	25			3	3
18	Waste management	30	15	15						15	15			2	2
<b>Total (A+B+C)</b>		<b>681</b>	<b>295</b>	<b>386</b>	<b>0</b>	<b>103</b>	<b>203</b>	<b>112</b>	<b>128</b>	<b>80</b>	<b>55</b>	<b>29</b>	<b>16</b>	<b>9</b>	<b>54</b>
<b>D. MSc project</b>													5		5
<b>E. Seminar</b>		10			10		10					1			1
<b>F. MSc seminar</b>		60	0	0	60				30		30		3	3	6
<b>G. MSc thesis</b>														7	7
<b>H. Facultative courses (5 x 30 h)</b>		150	75	75				30	30	45	45		6	9	15
<b>I. MSc Exam</b>														2	2
<b>Total</b>		<b>901</b>	<b>370</b>	<b>461</b>	<b>70</b>	<b>103</b>	<b>213</b>	<b>142</b>	<b>188</b>	<b>125</b>	<b>130</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>90</b>