

Environmental and Plant Biotechnology

Program 2017/18

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				
A. General education courses		108	45	63	0	0	48	0	0	45	15	3	0	4	7
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. Core courses		213	103	110	0	73	80	30	30	0	0	14	4	0	18
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
C. Specialization courses		360	147	213	0	30	75	82	98	35	40	12	12	5	29
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	Biotechnology of water, sewage and activated sludge	45	20	25						20	25			3	3
18	Waste management	30	15	15						15	15			2	2
Total (A+B+C)		681	295	386	0	103	203	112	128	80	55	29	16	9	54
D. MSc project													5		5
E. Seminar		10			10		10					1			1
F. MSc seminar and MSc thesis		60	0	0	60				30		30		3	10	13
G. Facultative courses (5 x 30 h)		150	60	90				30	30	45	45		6	9	15
H. MSc Exam														2	2
Total		901	355	476	70	103	213	142	188	125	130	30	30	30	90