



JAGIELLONIAN UNIVERSITY
IN KRAKOW

Environmental studies at Polish universities

Warsaw, 14 April 2014
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Faculty of Chemistry

TEMPUS „QANTUS” Kick-off Meeting



Synopsis

1. Short information on the Jagiellonian University in Krakow
2. Environmental studies in Poland
3. Present day: National Qualifications Framework for Higher Education
4. Environmental studies at the Jagiellonian University
5. Contribution of the Jagiellonian University to the QANTUS project



1. Short information on the Jagiellonian University in Krakow



The Jagiellonian University was founded by King Casimir the Great in 1364.



16 faculties, 48 disciplines, 93 specialisations,
47 000 students,
university staff:
academic teachers - 3700,
professors – 1050,



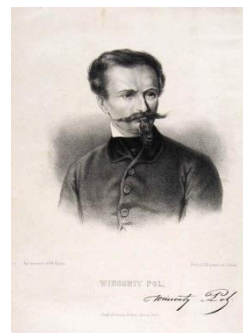
1783 First Department of Chemistry in Poland
Jan Jaśkiewicz (mineral waters, gases, theory of flame)



1883 Condensation of oxygen and nitrogen
Karol Olszewski i Zygmunt Wróblewski



1849 Department of Geography
Wincenty Pol



Strong tradition in natural and exact sciences (mathematics, physics, chemistry, astronomy, biology, geography etc.)

2. Environmental studies in Poland

- Beginning: early 1990s
- Two strands:
 - University studies (environmental protection)
 - Technical studies (environmental engineering)
- University studies: three „germs of nucleation”
 - Biology
 - Chemistry
 - Geography
- Three main patterns:
 - „Suprafaculty studies” (Warsaw University)
 - Interfaculty studies (JU, UW
 - Studies within one faculty (UMCS)
- Regular meetings of Heads of Environmental Studies (from 1993)
- Tempus project DEPES (Databases and ECTS for Polish Environmental Studies): 1996-97, with 11 Polish universities and 3 EU partners, coordinated by the JU



3. Present day: NQF for HE

- NQF for HE introduced by the Decree of the Minister of Science and Higher Education in 2011
- Environmental studies at Polish universities are usually assigned to Natural Sciences area
- In 2012 all Polish curricula have been transformed to follow the requirements of NQF



Ministerstwo Nauki
i Szkolnictwa Wyższego



Krajowy Naukowy
Ośrodek Wiodący
2012-2017

Krakowskie Konsorcjum Naukowe im. Mariana Smoluchowskiego

Faculty of Chemistry JU – scientific category **A+**

RZECZPOSPOLITA
**RANKING
EDUKACYJNY**
Perspektywy

Ranking uczelni akademickich 2013

2013	miejsca w poprzednich edycjach rankingu:	2012	2011	2010	2009	WSKAŹNIK RANKINGOWY 2013
1 Uniwersytet Jagielloński		1	2	2	1	100,0
2 Uniwersytet Warszawski		2	1	1	2	99,92
3 Uniwersytet im. Adama Mickiewicza w Poznaniu		3	4	3	3	80,08
4 Politechnika Warszawska		4	3	4	4	79,00
5 Akademia Górniczo-Hutnicza im. Stanisława Staszica w Krakowie		6	6	7	5	74,40
6 Politechnika Wrocławska		5	5	5	6	73,35
7 Uniwersytet Wrocławski		7	7	6	7	72,31
8 Uniwersytet Medyczny im. Karola Marcinkowskiego w Poznaniu		10	10	10	9	67,49
9 Uniwersytet Mikołaja Kopernika w Toruniu		9	13	11	10	66,06
10 Szkoła Główna Handlowa w Warszawie		12	9	8	8	65,98
11 Warszawski Uniwersytet Medyczny		14	19	16	16	64,80
12 Gdański Uniwersytet Medyczny		18	20	17	20	64,69
13 Politechnika Łódzka		8	8	9	11	63,79
14 Uniwersytet Gdański		15	18	20	17	63,01
15 Akademia Leona Koźmińskiego w Warszawie		11	25	28	31	60,88
16 Uniwersytet Medyczny w Łodzi		13	23	22	30	60,76
17 Uniwersytet Medyczny im. Piastów Śląskich we Wrocławiu		22	27	18	13	60,57
18 Politechnika Śląska w Gliwicach		16	15	14	12	59,94
19 Uniwersytet Medyczny w Białymstoku		17	12	13	23	59,32
20 Uniwersytet Śląski w Katowicach		19	16	19	26	59,29



Chemia

Chemia

		WYNIK 2013	ocena przez kadrę akademicką		preferencje pracodawców		liczba publikacji	cytowania	h-indeks
			35%	35%	10%	10%	10%		
1	Uniwersytet Warszawski	100,0	100,0	100,0	84,35	100,0	96,88		
2	Uniwersytet Jagielloński	76,68	67,63	61,73	100,0	99,66	100,0		
3	Politechnika Warszawska	71,91	54,68	85,10	62,87	75,36	78,13		
4	Politechnika Wrocławska	71,58	51,80	88,89	65,36	69,60	75,00		
5	Uniwersytet im. Adama Mickiewicza w Poznaniu	63,56	56,83	58,02	86,12	66,77	68,75		
6	Uniwersytet Wrocławski	57,10	48,20	48,15	76,49	74,69	71,88		
7	Politechnika Łódzka	44,83	12,23	65,43	56,19	55,61	56,25		
8	Politechnika Gdańska	38,13	19,42	39,51	36,35	72,12	59,38		
9	Uniwersytet Mikołaja Kopernika w Toruniu	36,66	12,95	30,86	45,38	82,86	78,13		
10	Politechnika Śląska w Gliwicach	35,52	6,47	56,79	26,39	53,88	46,88		



Ochrona środowiska



Ochrona środowiska

	WYNIK 2013	ocena przez kadrę akademicką	preferencje pracodawców	liczba publikacji	cytowania	h-index
		25%	25%	20%	6%	12%
1 Uniwersytet Warszawski	100,0	54,55	100,0	36,60	73,58	71,43
2 Uniwersytet Jagielloński	89,42	63,64	49,15	51,32	100,0	100,0
3 Uniwersytet im. Adama Mickiewicza w Poznaniu	86,25	100,0	11,86	67,92	70,89	92,86
4 Politechnika Warszawska	82,05	54,55	76,27	33,58	37,13	64,29
5 Politechnika Wrocławska	80,61	51,52	64,41	72,45	39,93	64,29
6 Akademia Górniczo-Hutnicza w Krakowie	74,22	54,55	71,19	32,45	28,02	35,71
7 Szkoła Główna Gospodarstwa Wiejskiego w Warszawie	63,75	42,42	37,29	40,00	77,33	64,29
8 Uniwersytet Śląski w Katowicach	61,58	24,24	61,02	42,26	47,10	57,14
9 Uniwersytet Przyrodniczy w Poznaniu	61,38	48,48	22,03	87,17	38,09	71,43
10 Politechnika Śląska w Gliwicach	60,68	21,21	66,10	47,92	34,93	50,00

4. Environmental studies at JU



Environmental Protection at JU

Since 1993

Faculty of Chemistry

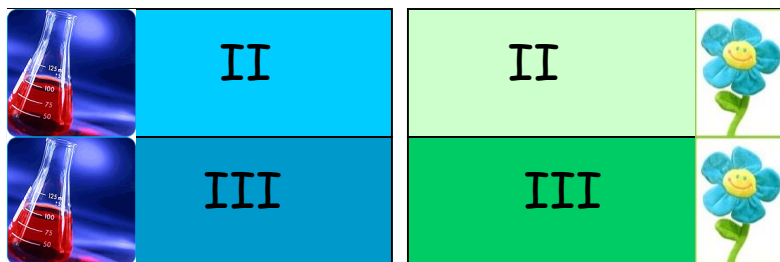
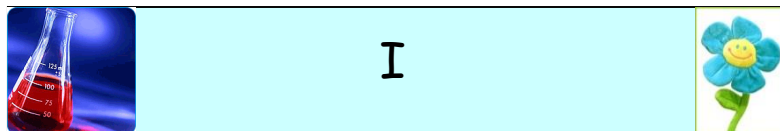
Faculty of Biology and Earth Sciences



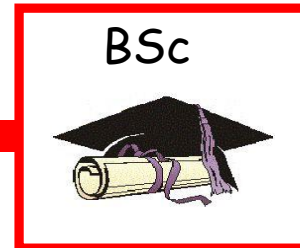
Structure of studies

1

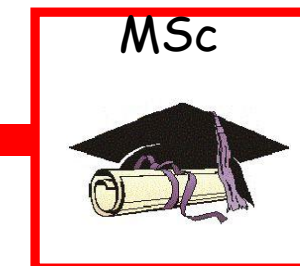
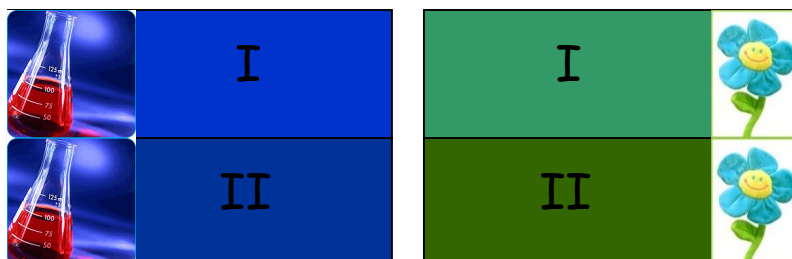
Environmental chemistry



Environmental biology



2





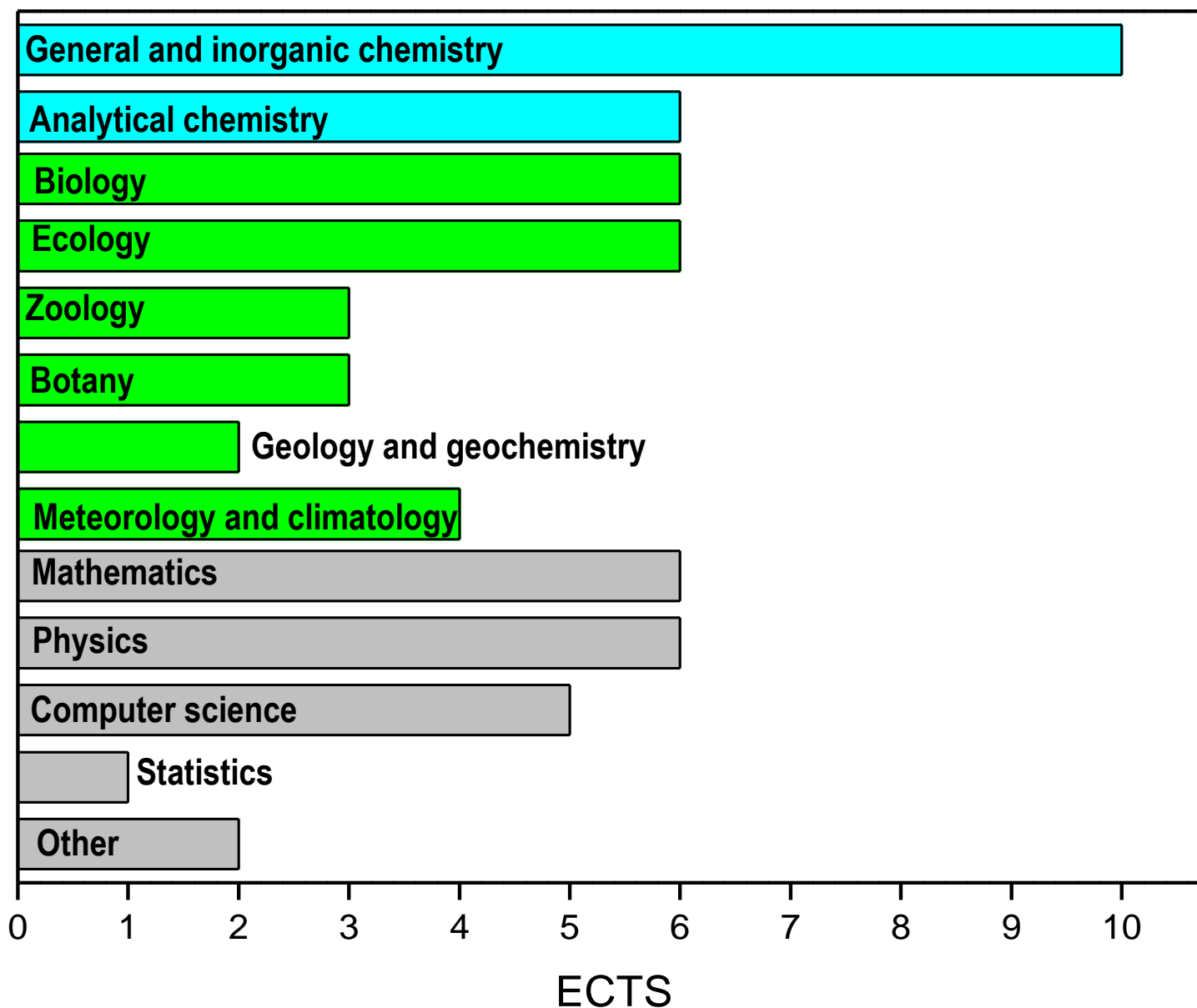
1 level	BSc	3 years/ 6 semesters	minimum 2200 learning units	minimum 180 ECTS
2 level	MSc	2 years/ 4 semesters	minimum 1000 learning units	minimum 120 ECTS

1 year = 2 semesters
1 learning unit = 45 min.
1 ECTS ~ 25-30 learning units





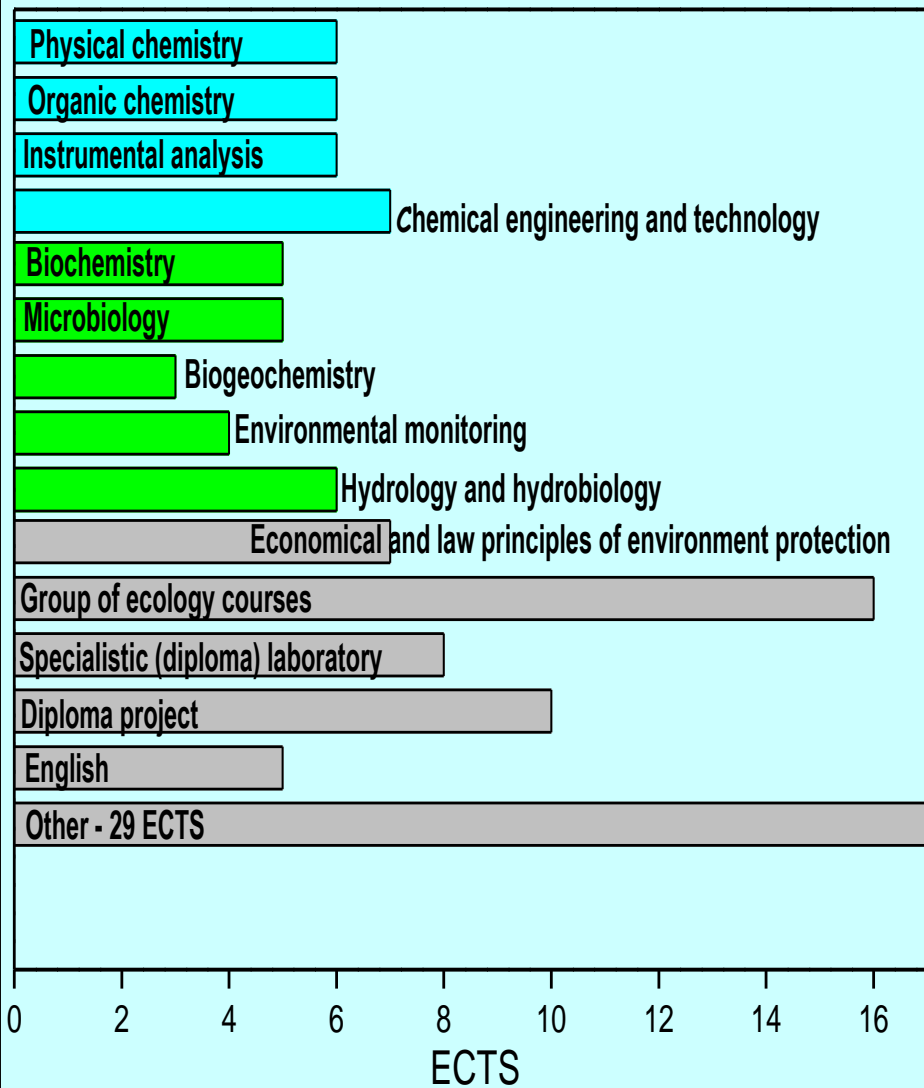
1 year/level 1



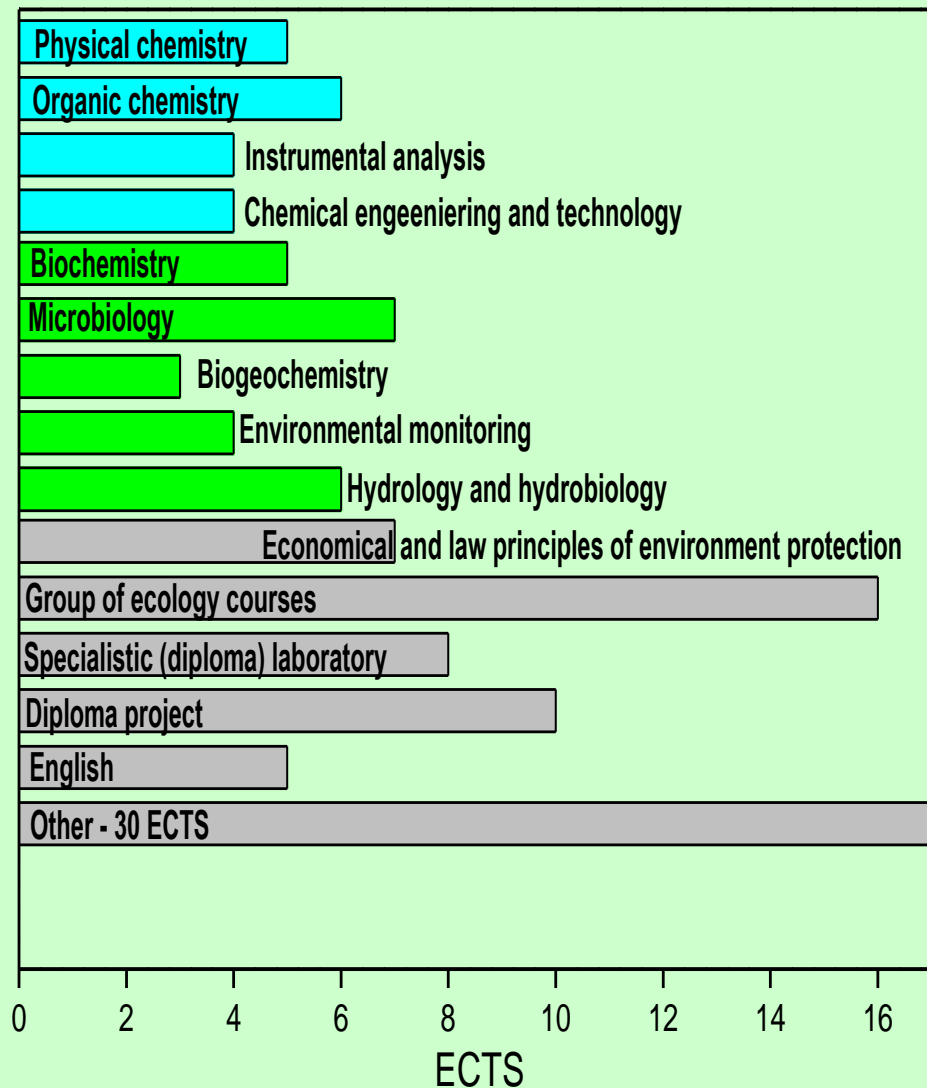
2 and 3 years/level 1



Environmental chemistry

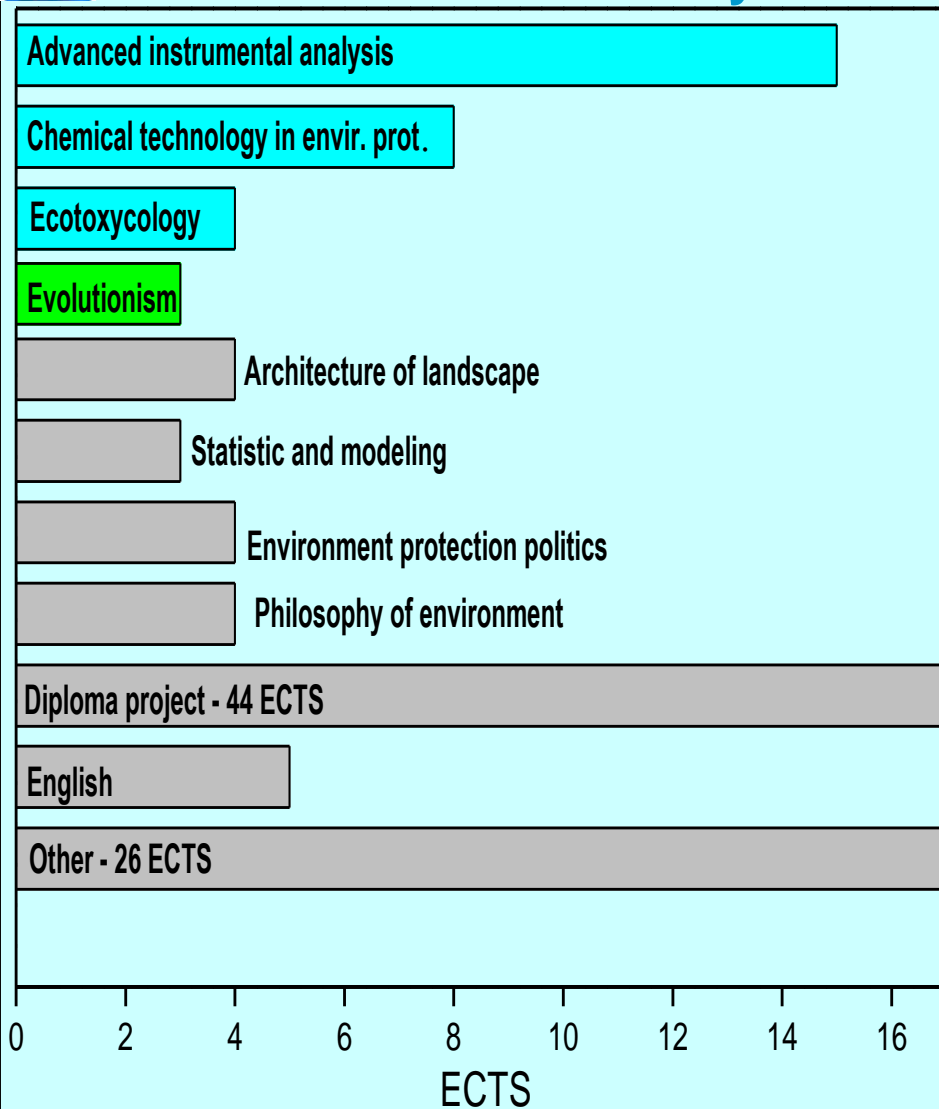


Environmental biology

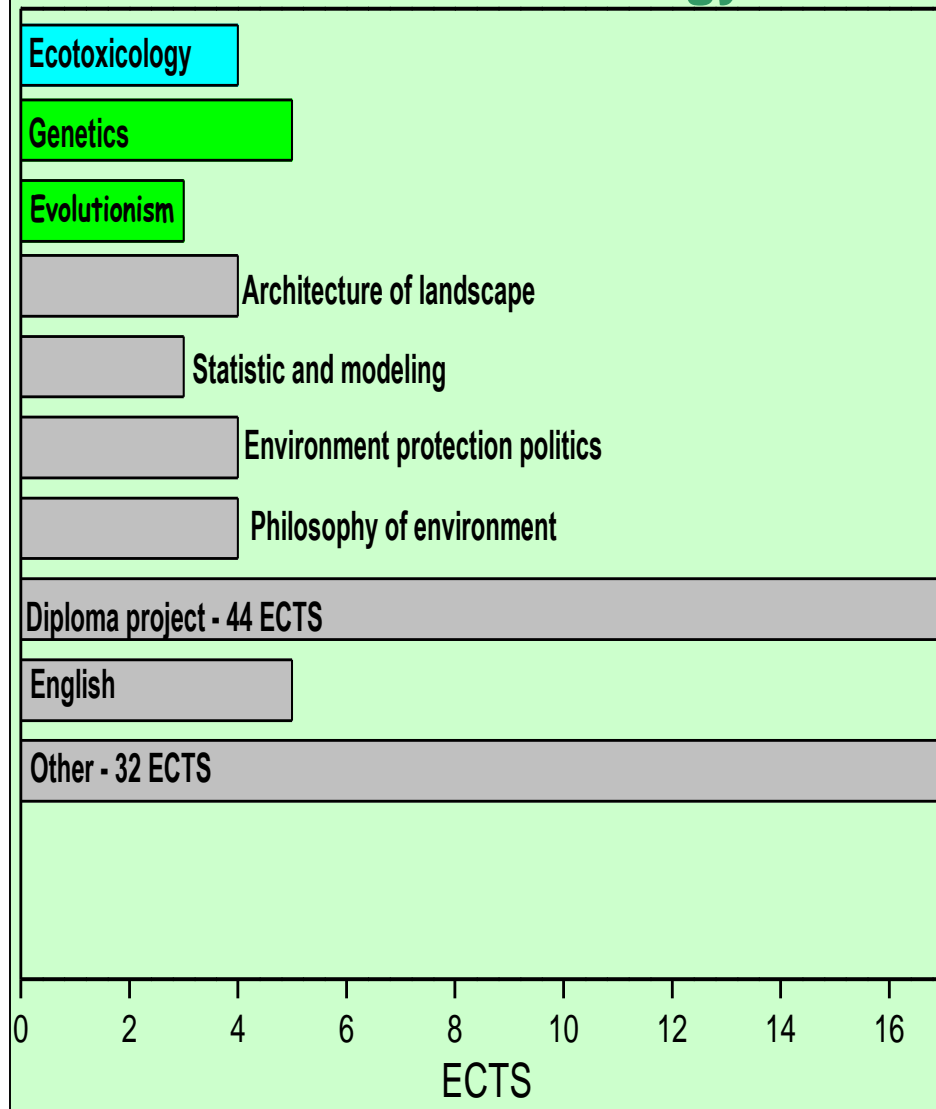




Environmental chemistry



Environmental biology



5. Contribution of JU to QANTUS

- Units involved:
 - Faculty of Chemistry
 - Faculty of Biology and Earth Sciences
 - Centre for Research on Higher Education
- Main tasks to be performed:
 - Analysis of recent developments in NQF and SQF at the European level
 - Evaluation of Ukrainian SQF prepared within the project
 - Assistance in curriculum development
 - Assistance in preparation of training materials
 - Assistance in quality management and evaluation of the project performance