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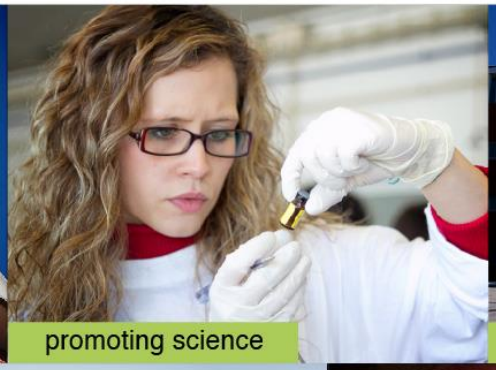
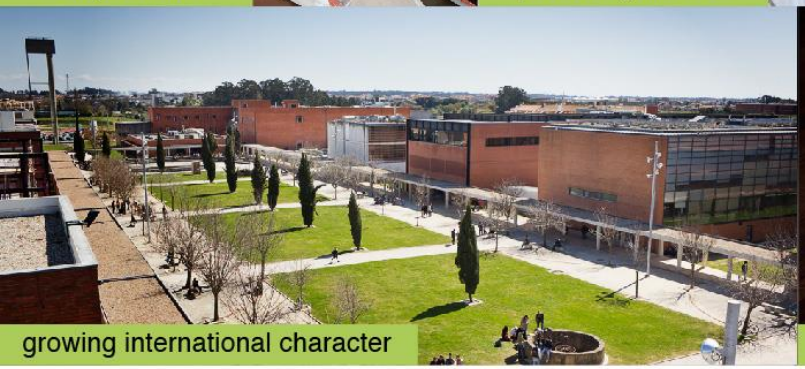
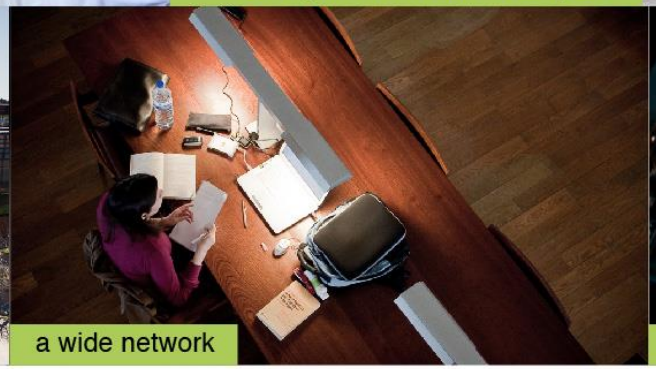
a campus with ideas
portugal


cooperation


promoting science


creativity in a distinctive campus


growing international character


a wide network


excellence in research

Margarida Fardilha
Biomedical Sciences Course Director

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located in Portugal's central region

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the university in numbers

13600

5150
postgraduate

910
teaching staff

90
researchers

300
postdocs

630
non-teaching staff

76
nationalities (on campus)

488000
(11500 online)

1100
student beds

6
canteens

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PBL @ UA

- Implemented in 2006 in the Biomedical Sciences Degree (BCD)
- Teachers were introduced to the method by an external expert and had extensive training
- The implementation occured togheter with the begining of the BCD
- No previous experience at all
- First 6 years 40 students/year; now 70 students/year

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Course curricula and PBL

Year	1st semester	ECTS	2nd semester	ECTS
1	From molecules to the organism 1	10	From molecules to the organism 2	10
	Functional organic systems 1	8	Functional organic systems 2	8
	Health Sciences	6	Communication in health	6
	Medical Statistics	6	Medical genetics	6
2	Functional organic systems 3	10	Functional organic systems 4	10
	Biopatology	8	Clinical pharmacology and therapeutics	6
	Clinical Biotecnology 1	6	Clinical Biotecnology 2	6
	Farmacology	6	Lab techniques in Biomedicine	8
3	Clinical Training	30	Health information	6
			Free Option	6
			Option 1, 2 and 3	6,6,6

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Course curricula and PBL

Year	1st semester	ECTS	2nd semester	ECTS
1	From molecules to the organism 1	10	From molecules to the organism 2	10
				8
				6
				6
2				0
				6
				6
				8
3	Clinical Training	30	Health Information	6
			Free Option	6
			Option 1, 2 and 3	6,6,6

60 ECTS in PBL

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OUR PBL

DAy	Monday						Tuesday						Wensday						thursday						Friday							
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F	G1		G2		G3		G4	
Hour																																
8H-9H																																
9H-10H																																
10H-11H																																
11H-12H																									Each 2 wecks							
12H-13H																																
13H-14H																																
14H-15H																																
15H-16H																																
16H-17H																																
17H-18H																																
18H-19H																																
19H-20H																																

Functional Organic Systems 1

From the molecule to the organism

Tutorial Grups

Medical Statistics

Health Sciences

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OUR PBL

DAy	Monday						Tuesday						Wensday						thursday						Friday			
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F	G1	G2	G3	G4
Hour																												
8H-9H																												
9H-10H																												
10H-11H																												
11H-12H																												
12H-13H																												
13H-14H																												
14H-15H																												
15H-16H																												
16H-17H																												
17H-18H																												
18H-19H																												
19H-20H																												

1st year students

18 hours contact

17 hours self study

Functional Organic Systems 1

From the molecule to the organism

Tutorial Grups

Medical Statistics

Health Sciences

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ASSESSMENT

	The Student			NI
1	Worked and fullfilled the tasks proposed	R	Y	P
2	Communicate his/her ideas	R	Y	P
3	Used adequated references	R	Y	P
4	Accepted criticisms and was a good group element	R	Y	P
5	Came to the session		Y	P
6	Arrived on time		Y	P
7	Listen to the others		Y	A
8	Shared relevant information to the course objectives		Y	A
9	Made a pertinent evaluation of him/herself		Y	A
10	Made a pertinent evaluation of the others participation		G	A
11	Made good learning questions and specific objectives		G	A
12	Raised hipothesis		G	P
13	Critically analysed the information		B	N
14	Sinthesized and integrated the information		B	N

P, positive; N, negative; A, acceptable

Insuficient
- If N in any red

Acceptable
- If there are no N in any red

Suficient
- If at least A to 7 yellows

Good
- If no N in any yellow
- And if at least P in 7 yellows

Very Good
- If P to all yellows
- And if no N in greens and P in at lesat 2 greens
- And if no N in blues

Excelent
- If P to all yellows
- And if P to all greens
- And if no N in blues and at least 1 P in blues

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ASSESSMENT

	The Student			NI
1				
13	Critically analysed the information			N
14	Sinthesized and integrated the information			N

P, positive; N, negative; A, acceptable

Insuficient

- If N in any red

n at

- And if no N in blues and at least 1 P in blues

This Student will have a SUFICIENT

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OUR EXPERIENCE

- At first students are not used to be responsible for their own learning
- Huge gap between previous learning method (teacher centered) and PBL
- Students get anxious and need lots of support from teachers and older students
- We have an excelente learning environment
- It is very difficult to engage new teachers and older teachers in the process

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OUR EXPERIENCE

- At first students are not used to be responsible for th
-
-
-
- It teachers in the process

PBL is very hard to implement and is even harder to mantain with high quality standards