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Encontro EfS ♦ Empresas

Formação Avançada

Centro de Investigação do Território, Transportes e Ambiente,

3 dezembro 2014

Summary

Last year and

Prospects on

- Master Programme on Energy for Sustainability
- PhD Programme on Sustainable Energy Systems

Possible new directions

Achievements

Master Programme on Energy for Sustainability

Admissions

64 initiated application

22 did not complete the application

7 did not pay on time

6 were not validated by administrative reasons

Of those accepted, 22 actually enrolled

Msc on EfS – Last year

Inquiries

1st semester

2nd semester

Indicador:
A-Número de respostas usadas no cálculo dos resultados
B-Taxa de resposta do inquérito aos estudantes no curso
C- Adequação dos Edifícios de Funcionamento do Curso
D- Adequação dos Horários de Acesso aos Edifícios
E- Adequação das Salas de Aula
F- Adequação da Biblioteca e Meios Afins de Acesso à Informação
G- Adequação dos Meios Informáticos
H- Adequação dos Laboratórios e seu Equipamento
I- Organização e Eficácia dos Serviços de Apoio aos Estudantes
J- Existência e Adequação dos Espaços de Estudo
L- Satisfação Geral com as Condições de Funcionamento do Curso
M- Adequação dos Laboratórios, Espaços de Estudo, Equipamentos e Outras Instalações

Curso\Indicador	A	B	C	D	E	F	G	H	I	J	L	M
LEGI	130	76%	3.8	3.6	3.9	3.2	3.4	3.7	3.5	3.3	3.7	3.4
MEAUTO	4	80%	4.0	4.3	3.7	4.0	3.7	3.7	4.0	3.7	4.0	3.7
MEGI	48	80%	3.7	3.4	3.7	2.8	3.1	3.4	3.3	3.2	3.5	3.2
MEMAT	7	78%	4.0	3.7	4.4	4.0	3.7	3.9	4.0	4.0	3.9	3.8
MESUC	10	48%	4.0	4.3	4.0	4.0	3.7	3.9	4.1	4.1	4.0	3.9
MIEM	484	80%	3.8	3.6	3.8	3.2	3.4	3.7	3.7	3.4	3.7	3.5

Curso\Indicador	A	B	C	D	E	F	G	H	I	J	L	M
LEGI	124	76%	3.8	3.6	3.8	3.1	3.2	3.6	3.4	3.3	3.6	3.3
MEAUTO	3	60%	4.0	4.7	4.0	4.5	4.3	4.3	4.0	4.5	4.3	4.4
MEGI	39	68%	3.7	3.4	3.8	3.1	3.1	3.6	3.5	3.2	3.7	3.3
MEMAT	6	67%	4.3	4.0	4.3	3.0	3.8	4.3	4.0	3.0	4.2	3.7
MESUC	7	58%	3.9	4.3	4.0	4.1	3.7	3.8	3.9	4.0	4.0	3.8
MIEM	445	78%	3.8	3.8	3.8	3.2	3.4	3.7	3.7	3.5	3.7	3.5

Msc on EfS – Last year

Inquiries

Indicador:
A-Número de respostas usadas no cálculo dos resultados
B-Taxa de resposta do inquérito aos estudantes na unidade curricular
C- Adequação da carga de esforço exigida
D- Adequação e disponibilidade da bibliografia e outros elementos de apoio à aprendizagem
E- Apreciação média global da qualidade das aprendizagens
F- Perceção dos estudantes sobre os resultados da aprendizagem que conseguiram alcançar
G- Clareza dos programas, objetivos pedagógicos e critérios da avaliação
H- Não sobreposição de conteúdos com outras unidades curriculares
I- Clareza e adequação dos métodos e critérios de avaliação
J- Boa articulação entre matérias teóricas e práticas
L- Adequação do número de estudantes por turma
M- Perceção dos estudantes sobre a sua participação ativa nos processos de aprendizagem
N- Perceção dos estudantes sobre o desenvolvimento de competências de análise e reflexão crítica
O- Apreciação global dos estudantes sobre a sua própria prestação

1st semester	MESUC	37	60%	5% Lig. 57% Ade. 27% Mod. Pes. 11% Exc. 0% N. Apli.	4.0	4.1	4.1	4.0	4.1	4.0	4.1	4.3	4.3	4.4	4.2	S/A
2nd semester	MESUC	28	64%	0% Lig. 75% Ade. 21% Mod. Pes. 4% Exc. 0% N. Apli.	4.4	4.4	4.5	4.4	4.4	4.3	4.4	4.4	4.6	4.5	4.6	S/A

Msc on EfS – Dissertations 2013/2014

Indoor Climate and Comfort (1)

Nuno Filipe Vaz Correia

Buildings and Urban Environment (5)

Ana Rita Mendes Amaral, Ashkan Ramezani Ivaki, José Miguel Branco Marques, Roham Torabikalaki; Tito Gonçalo Nunes Vilar Simões

Energy Systems and Policy (10)

Behrang Chenari, Guillermo Ivan de Loureiro Pereira, João Pedro da Silva Pereira, José Eduardo Fernandes Dias, Maximilian Karl Votteler, Mohammad Mohaghar, Nikola Sahovic, Seyedeh Shiva Saadatian, Zeinab Mousavi Karimi, Carlos Paulo Madeira Soares Branco

Msc on EfS – Prospects

Accreditation by A3Es

New regulator demands:

More stringent criteria for admitting non-engineers

Mandatory introductory course to fill education gaps

Tuition fees to raise sharply for non-EU students

PhD Programme on Sustainable Energy Systems

Admissions:

176 candidates (145 in the previous year), including 2nd phase

31 cases where UC was the 1st option (31 in the previous year)

15 candidates were admitted to the UC

Of these, 7 are ex-MSc-EfS students.

2 MPP scholarships (both ex-MSc-EfS students)

12 actually enrolled

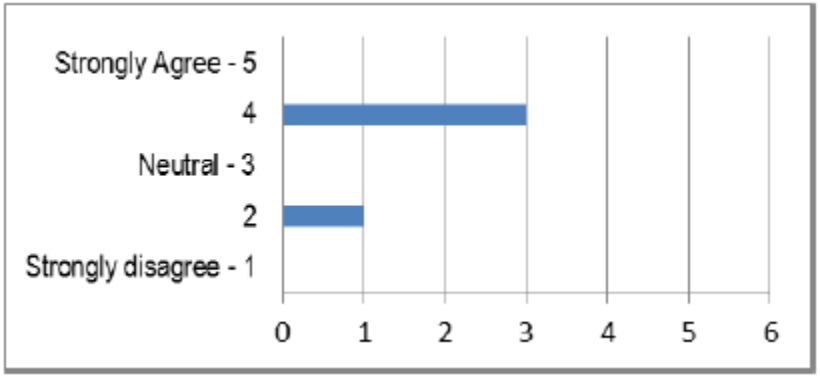
Guillermo	Pereira
Maria	Gomes
Ana	Amaral
Roham	Torabikalaki
Thiago	Vasques
Catarina	Matos
Seyedmasoud	Taheri
Flavio	Orlandin
Amir	Goodarzvand Chegini
Rodrigo	da Silva
Joao	Pereira
Juliana	Gomes

PhD Programme on SES – Last year

Weakest items (<= 3,5 on the survey results)

There is no significant overlap between different modules

2014	2013	2012	2011
3.5	3.1	3.3	4.

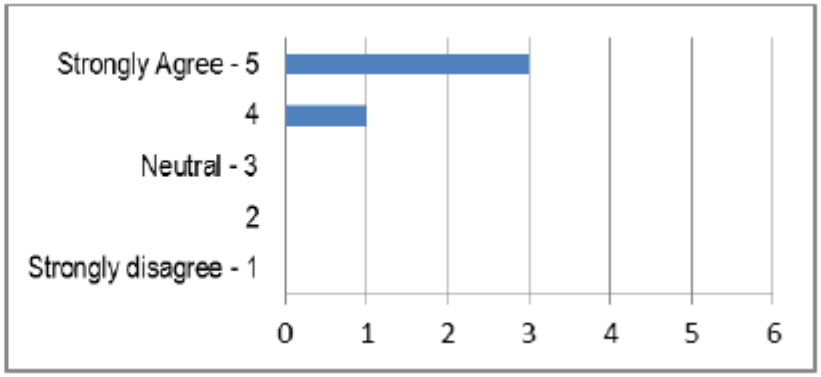


PhD Programme on SES – Last year

Strongest items (<= 4,75 on the survey results)

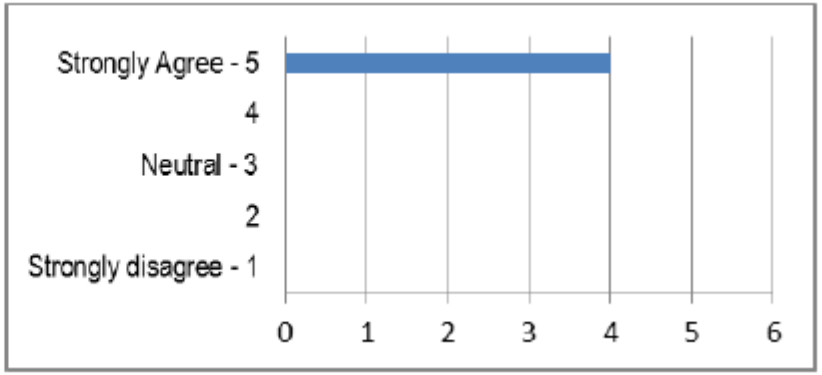
The administrative support staff was readily available and was very efficient

2014	2013	2012	2011
4.8	4.8	4.3	5.0



The information (written and spoken) made available before the decision to attend and enter the course was easily accessible and of very high quality

2014	2013	2012	2011
5.0	4.0	3.4	4.3

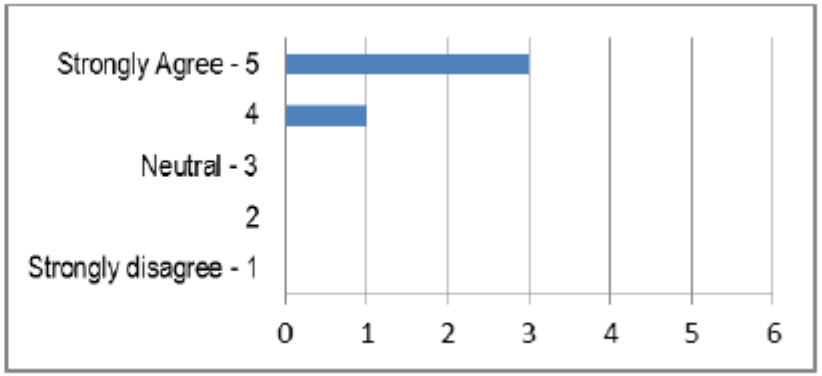


PhD Programme on SES – Last year

Strongest items (<= 4,75 on the survey results)

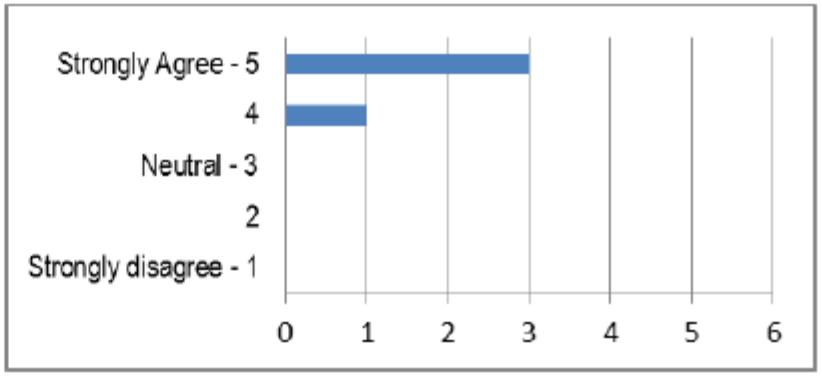
The general conditions in the class room (lighting, acoustics, furniture, etc.) were very good

2014	2013	2012	2011
4.8	3.4	3.7	4.5



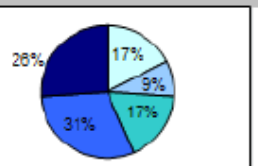
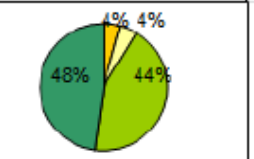
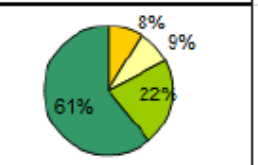
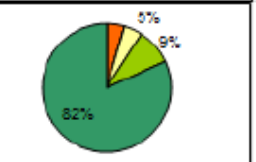
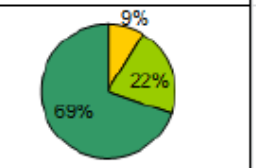
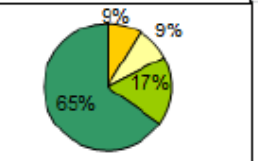
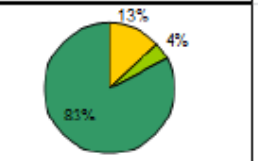
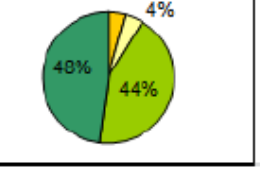
The course structure provided valuable opportunities to engage in interdisciplinary work

2014	2013	2012	2011
4.8	4.1	4.1	4.7



PhD Programme on SES – Last year

Elective courses - general picture

	1- Strongly disagree	2	3 - Neutral	4	5 - Strongly Agree		Average
The module was complex and difficult	4	2	4	7	6		3,4
This module has helped me to advance my abilities in understanding the whole of the subject matter and enabled me to apply the subject concepts to work beyond the class room		1	1	10	11		4,3
The work load of this module was appropriate to the contents given		2	2	5	14		4,3
Please evaluate the overall quality of teaching	1		1	2	18		4,6
The teaching methods and support material (slides, articles and information on website) were fully appropriate in achieving the course learning goals		2		5	16		4,5
The evaluation method that was used (assignments, exams, presentations, etc) was appropriate to the module objectives		2	2	4	15		4,4
The professor was available outside of class in person or via email/phone and provided appropriate and timely feedback on my work		3		1	19		4,6
Please make an overall evaluation of the module		1	1	10	11		4,3

PhD Programme on SES – Last year

Thesis 2013/2014

Thesis	Ph.D	Supervisor(s)	Exam date
Life cycle optimization model for integrated cogeneration and photovoltaic systems	**Amir Safaei**	C. Henggeler Antunes, F. Freire	Novembro|2014
Conceptual BPS tools for Architects	**Eugénio Rodrigues**	A. Gaspar, J. Hensen	Julho|2014
Environmental sustainable assessment of bioenergy: A life cycle multi-criteria decision-support approach	**Érica Geraldes Castanheira**	F. Freire	Junho|2014
A Retrofit Decision Support Approach for Improving Energy Efficiency and Indoor Environmental Quality in Buildings	**Ehsan Asadi**	M.C. Gameiro da Silva, C. Henggeler Antunes, L. Dias	Novembro|2013
Energy and exergy assessments for an enhanced use of energy in buildings	**Pedro Gonçalves**	A. Gaspar, M.C. Gameiro da Silva	Novembro|2013

PhD Programme on SES – Prospects

New Joint Programme (doutoramento em associação)

4 years (240 ects) instead of 3, more realistic

Mandatory courses (the same at all three universities): 30 ECTS

Research Methodologies (6ECTS) 1st S

Luis Adriano, Manuel Heitor

Thesis Project (12ECTS) 2nd S

Luis Dias, Peças Lopes, João Serra

Innovation and Entrepreneurship (6ECTS) 1st S

MIT Portugal

Energy Environment and Sustainability (6ECTS) 1st S

Paulo Ferrão, Fausto, Vítor Leal

Specialization programme on EfS

12 candidates started the application process

8 did not complete the application

2 did not pay on time

Of the 2 actually admitted, 1 enrolled

New education and training options - prospects

Non awarding degree programmes

- As a public service to stakeholders
- As a source of income
- As a way of further stimulating demand for the Msc Programme

Some possibilities

- Specific modules (including e-learning)
- Promoting specific existing courses
- New specialization courses, based on the existing Msc areas

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