UCLouvain

Imeca2420

2018

Advanced topics in energetics.

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e contributes to the development, to the acquisition and to the evaluation of the following experiences rning: A1.1, AA1.2, AA1.3 A2.3, AA2.4, AA2.5 A3.1, AA3.2 A5.2, AA5.3, AA5.6 A6.1, AA6.2				
croduce to the most recent developments in the field of energy systems. It we access to the students to the present technical literature in the field. It is mow the impact of technical, environmental, social constraints on the evolution of energy technologies. It is regrate non technological dimensions in developments on thematic related to energy. It is the students for their active participation in a course which concludes a sequence of lectures thermodynamics and energy systems. In of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s)				
ed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit". nsists in the evaluation of a report prepared by the student about one of the topics of the course.				
The methodology is based on the following activities: • Invitation of external speakers and specialists in their field to give a sound presentation of an energy related topic together with technical, scientific, social, environmental issues • Attendance to a workshop as far as possible • Technical visit of an industrial site or a research infrastructure • A report of the student, written in English, about one of the presented topics including a more personal research/analysis				
topics consist in actual questions. For example, let us mention: eeen energy-economy nical roots of the energy/ecological crisis er the energy situation in Africa eactor and passive safety systems on of energy needs usion I buildings on Belgium in 2050 vastes on 4 nuclear reactors d heat and power (CHP) and district heating as-steam combined power cycle				

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Inline resources	https://moodleucl.uclouvain.be/course/view.php?id=9476				
Bibliography	Slides des conférenciers Slides des conférenciers invités. Obligatoire				
Faculty or entity in charge	MECA				

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Aims		
Master [120] in Electro- mechanical Engineering	ELME2M	3		Q		
Master [120] in Mechanical Engineering	MECA2M	3		٩		