

Master Online Renewable Energy

Dr. Tanja Behrendt

Evaluation Report

Energy Meteorology



**PUBLIKATION DER BILDUNGSALLIANZ MINT.ONLINE:
UNIVERSITÄT OLDENBURG, UNIVERSITÄT KASSEL, UNIVERSITÄT STUTT GART, FERNUNIVERSITÄT IN
HAGEN, FRAUNHOFER-GESELLSCHAFT, FORWIND, NEXT ENERGY**

Gefördert von:



About the course

In winter term 2012/2013 the first online lecture "Energy Meteorology" was tested parallel to the face-to-face lecture "Energy Meteorology" of the Postgraduate Programme Renewable Energy (PPRE) and the EUREC (European Renewable Energy Centre) Master Programme. During this course basic meteorological knowledge is taught which is necessary for the understanding of the fluctuating nature of solar and wind energy resources. The course will be an integral part of the Master Online Renewable Energy.

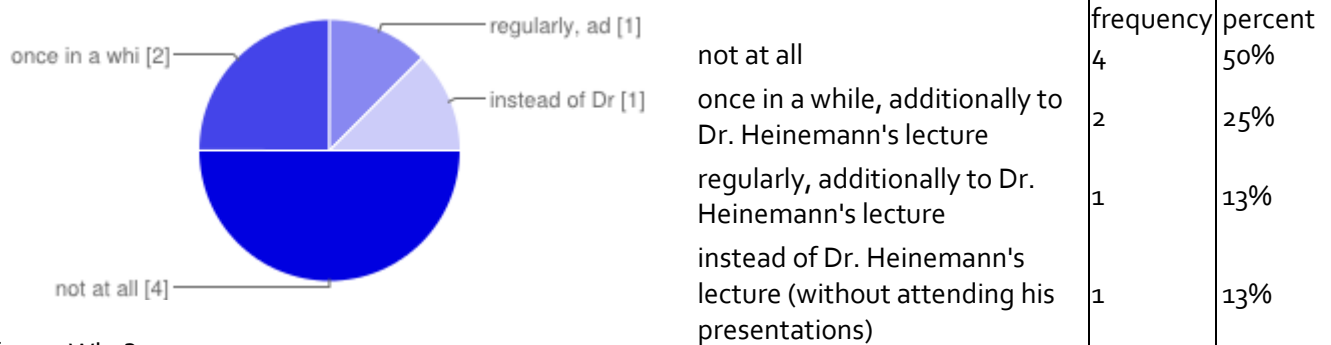
An online lecture was developed and offered to 36 Master students. The students were free to choose if they would like to use the online lecture in addition or as substitute to the face-to-face lecture. Exercises were available exclusively on the online learning environment. Personal feedback was given to each student who submitted a solution to the exercise. Forums for discussion and questions were meant to give an additional attraction to use the online lecture.

Overall the online lecture was used from some students. Each day approximately 3 students logged themselves in to the learning environment. The exercises were processed infrequently and the forums were not used at all.

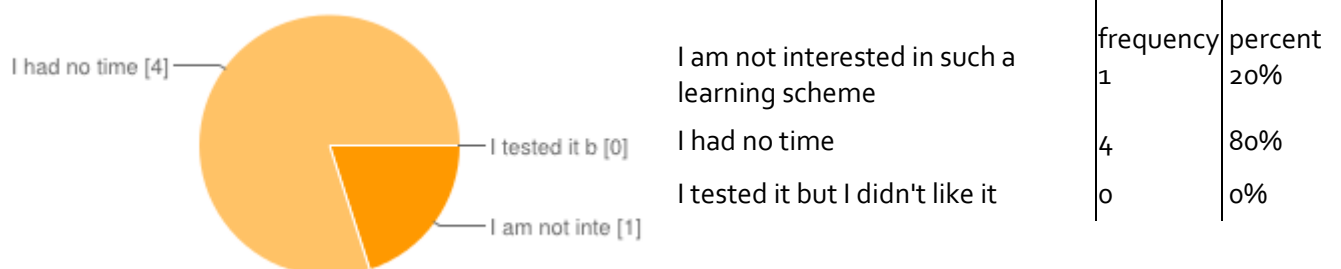
Evaluation of the course

After the winter term an online questionnaire was sent to the students to answer to the 7 questions concerning their usage and their opinion of the lecture and the learning environment. The results are presented in the following.

Did you attend the Online Lecture Energy Meteorology?

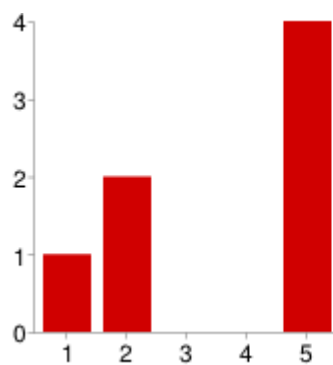


If not - Why?

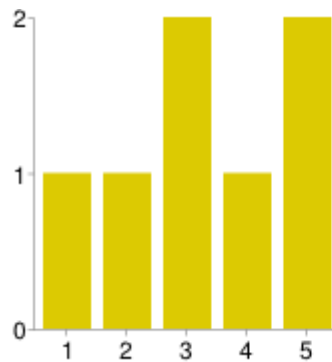


How often did you use the different learning environments (1: not at all; 5: every week)?

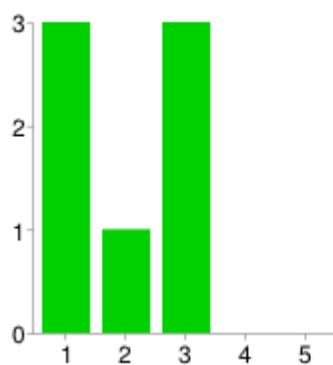
Face to face lecture



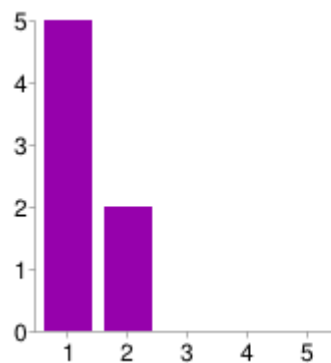
pdf-files



Assignments

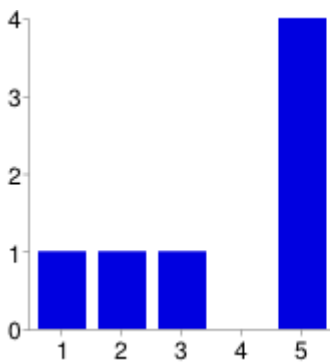


Forums

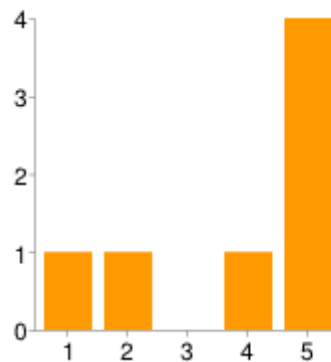


How useful were the different environments for you (1: not useful; 5: very useful)?

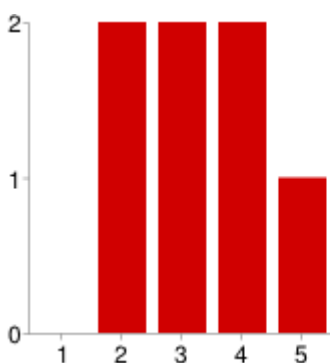
Face-to-face lecture



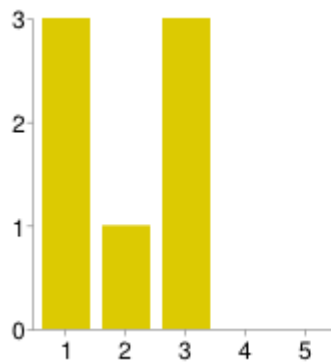
pdf-files



Assignments



Forums

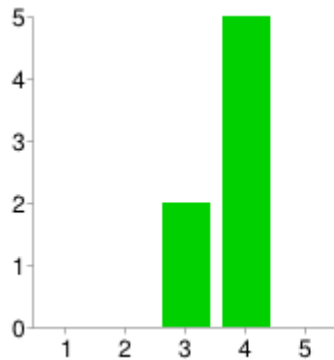


How much time did you spend participating in the Energy Meteorology Lecture (in hours)?

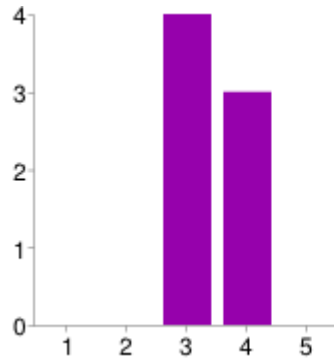
Face to face lecture: 40 25 6 1 hr per week 2 hours 2h/week
 Pdf files: 0 5 10 1 hour 45 minutes per week 1h/week
 Assignments: 3 2 0 5 3 hours per week
 Learning environment: 1 0 1 hour 45 minutes per week
 Else: 0

What is your opinion of the learning environment (1: poor; 5: very good)?

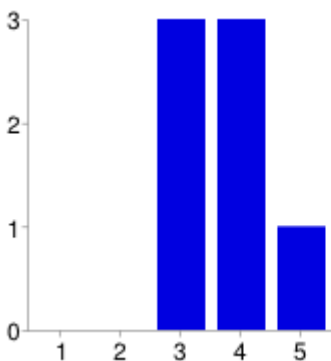
Structure



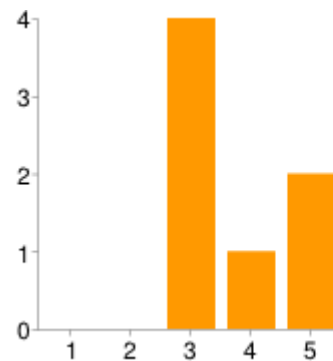
Design



Simplicity to use

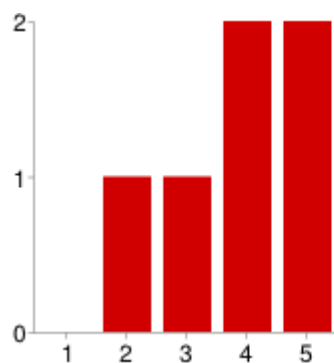


Reliability/Accessibility

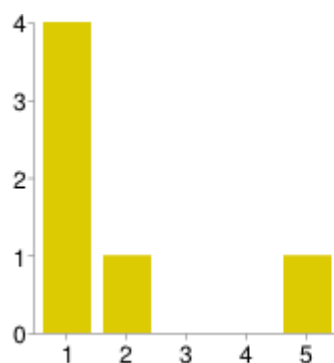


Overall, what is your opinion of the Online Lecture (1: poor; 5: very good)?

In addition to face-to-face



As substitute



Additional comments

I think it is complementary to the lectures, it can not replace the lectures but is a good way to tracking the study plan.

It is an interesting idea. The exercises are helpful for better understanding of the theory.

It could work in addition to face to face lecture if there was more time. It cannot substitute the lecture as there were always questions to be answered.

Number of daily responses

