Free pilot courses:
Before the programmes developed in the mint.online project are officially included in the educational portfolio of the network partners they have to pass a ‘testing’ phase. Selected pilot modules will be offered for free for this testing purpose.

What you get:
- Free participation at high-quality study programmes from the field of photovoltaics, energy storage and wind energy.
- All pilot courses will be given in English.
- Participation from the comfort of your home with the opportunity of flexible time management.
- The courses can be passed with an examination.
- Acknowledgement of your participation, in case you decide to study the full programme at a later date.

We are looking for an intensive participation through active feedback to content and structure of the offered modules, e.g. via discussions or questionnaires.

What you need to bring:
- BSc in natural sciences or engineering or comparable profession
- proficiency of the English language
- intuitive understanding of mathematical methods (e.g. calculus, differential equations)
- autonomous research in scientific literature
- willingness for self-organised working methods

Are you interested?
Further information to our programmes and the online-registration to the pilot modules can be found at:

www.ppre.de/distance-education

Application deadline: April 13, 2014

mint.online
mint.online is a network of German universities and research organisations with the goal to offer high-quality continuing educational programmes for working adults in STEM fields (science, technology, engineering and mathematics).

The university of Oldenburg, the ForWind institute and the Next Energy research centre collaborate in this project for a „Master online Renewable Energy“ by the Postgraduate Programme Renewable Energy (PPRE) in the field of physics. The continuing educational programmes „Decentralised Electrical Energy Storage“ by Next Energy and „Advanced Wind Energy“ by ForWind can be studied separately or as part of the MSc programme.

YOUR CONTACT:

Dr. Tanja Behrendt
Thomas Poppinga
Andreas H. Schmidt

Dr. Robin Knecht

Any questions?
Do not hesitate to contact us via:

RE-pilote2014@uni-oldenburg.de

mint.online is funded by

www.mintonline.de
Free pilot courses offered currently in the mint.online project

Specialisation
Physics of Photovoltaics:
This specialisation course discusses the fundamental physical processes in solar cells. Students deepen their understanding of solar cells and photovoltaic systems using exercises, simulations and preparing a seminar paper.

Key subjects:
- introduction to energy sources
- solid state/ semiconductor physics
- physics of the pn-junction
- simulation of solar cells
- characterisation methods
- solar cell technologies
- photovoltaic systems

Fundamentals
Secondary Batteries:
Battery storage systems find new applications in distribution and management of power from fluctuating sources. The participants obtain a thorough understanding of design, function and characteristics of current storage solutions and types of secondary batteries.

Key subjects:
- motivation for energy storage
- renewable energy fluctuation
- distribution and transmission grids
- energy storage technologies
- electrochemical processes in batteries
- materials and design of current battery types
- parameters and characteristics

Computational
Fluid Dynamics 1:
CFD-simulations offer an astonishing multitude of applications in the field of engineering and physics. This course teaches a fundamental understanding of this method and its application.

Key subjects:
- fundamental equations of fluid dynamics
- numerical methods to solve these equations
- complex problems in fluid dynamics
- common CFD-models
- autonomous application of CFD-models
- Navier-Stokes-Equations and Navier-Stokes-Solver

Master Online
Renewable Energy
The internationally oriented online study programme teaches theory and application of renewable energy systems vividly and practically oriented including the fields wind and solar energy, biomass, energy storage or energy politics.

Certificate programme
Decentralised Electrical Energy Storage
The vocational education programme „Decentralised Electrical Energy Storage” explains the fundamentals in storage and battery technologies, the knowledge about its management and grid integration as well as the testing of practically relevant designs for storage applications.

Certificate programme
Advanced Wind Energy
This certificate programme addresses engineers or physicists with a graduate or equivalent degree, who want to get a specialisation for wind energy or want to change their industrial sector. Two specialisation tracks can be chosen: Energy Meterology and Wind Energy Systems.

www.ppre.de
www.next-energy.de
www.forwind.de