A: Brückenkurs/Preparatory Course in Energy Economics

Studiengang:	M. Eng. Energie- und Umweltmanagement / M. Eng. Energy and Environmental Management
Modulbezeichnung:	Brückenkurs/Preparatory Course in Energy Economics
ggf. Kürzel:	-
ggf. Untertitel:	Foundations of Energy Economics and Energy Management
ggf. Lehrveranstaltungen:	-
Semester:	Before the 1st semester
Modulverantwortliche(r):	Prof. Dr. Bernd Möller
Dozent(in):	Prof. Dr. Bernd Möller
Sprache:	English
Zuordnung zum Curriculum:	M.Eng. Energie- und Umweltmanagement for 'Developing Countries', pre-course, Compulsory Module
Lehrform / SWS:	Seminar with max. 25 students
Arbeitsaufwand:	4 SWS
Kreditpunkte:	5 ECTS
Voraussetzungen:	none
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Lernziele / Kompetenzen: Inhalt:	The course introduces students to the field of Energy Economics and Energy Management as a qualification for the M.Eng. Energy and Environmental Management course. The main aims of the course are to gain basic insights into the field of energy economics and energy markets, in the first instance, neo-classical economics. Second, the students will be introduced to natural resource economics and touch on the associated environmental economics. Lastly, the course discusses the limitations of the neo-classical economic model to deal with energy and the environment and provides a brief introduction into alternative economic models, such as ecological economics. The course will focus on an international perspective of energy
	production and use and discusses academic and political contents. The economics of energy production and use within the concept of sustainable development form a major part of this course. It touches on possible strategies and methodologies to a more sustainable energy future. The following topics will be covered: Introduction to energy markets Coal, oil and gas and electricity markets Introduction to Resource Economics Introduction to Ecological/Biophysical Economics Energy risks Energy security Energy and sustainable development Role of government in energy economics Innovation in energy management Concepts of sustainability Law of entropy and energy Energy and climate change

	 1-2 short excursions to local companies (e.g. Stadtwerke Flensburg, WSTECH GmbH, Danfoss Silicon Power, artefact Glücksburg, TBZ Flensburg)
Studien-	Essay (10 pages) on energy economic issues and proposed
Prüfungsleistungen:	management practices in the home countries of students.
Literatur:	 Tietenberg, T. and Lewis, L. (2009) Environmental and Natural Resource Economics, Pearson International Edition, Eighth Edition, Pearson Addison Wesley, Boston, ISBN 13: 978-0-321-56046-9 Dahl, C. A. (2004) International Energy Markets: Understanding Pricing, Policies, and Profits, Penn Well Corporation, USA, ISBN: 978-0-87814-799-1 Deutscher, G. (2008) The Entropy Crisis, World Scientific Publishing Co. Pty. Ltd. Singapore, ISBN: 13 978-981-277-968-7