

## Environmental Physics & Energy Physics (A) - physics771

<i>Course</i>	Environmental Physics & Energy Physics (A)
<i>Course No.</i>	physics771

Category	Type	Teaching			Semester
		Language	hours	CP	
Elective	Lecture	English	2	3	WT

### Requirements for Participation:

**Preparation:** Physik I-V (physik110-physik510)

**Form of Testing and Examination:** Active contributions during term and written examination

**Length of Course:** 1 semester

**Aims of the Course:** A deeper understanding of energy & environmental facts and problems from physics (and, if needed, nature or agricultural science) point of view

**Contents of the Course:** After introduction into related laws of nature and after a review of supply and use of various resources like energy a detailed description on each field of use, use-improvement strategies and constraints and consequences for environment and/or human health & welfare are given.

### Recommended Literature:

Diekmann, B., Heinloth, K.: Physikalische Grundlagen der Energieerzeugung, Teubner 1997

Hensing, I., Pfaffenberger, W., Ströbele, W.: Energiewirtschaft, Oldenbourg 1998

Fricke, J., Borst, W., Energie, Oldenbourg 1986

Bobin, J. L., Huffer, E., Nifenecker, H., L'Energie de Demain, EDP Sciences 2005

Thorndyke, W., Energy and Environment, Addison Wesley 1976

Schönwiese, C. D., Diekmann, B., Der Treibhauseffekt, DVA 1986

Boeker, E., von Grondelle, R., Physik und Umwelt, Vieweg, 1997

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