Degree: M.Sc. in Physics (PO von 2006)

Modules:
- physics700  Elective Advanced Lectures
- physics720  Applied Physics

Course: Environmental Physics & Energy Physics (A)

Course No.: physics771

<table>
<thead>
<tr>
<th>Category</th>
<th>Type</th>
<th>Language</th>
<th>Teaching hours</th>
<th>CP</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective</td>
<td>Lecture</td>
<td>English</td>
<td>2</td>
<td>3</td>
<td>WT</td>
</tr>
</tbody>
</table>

Requirements:

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:
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

May 2016