

<i>Course title</i>	<i>Renewable Energy</i>
<i>Course code</i>	<i>IP 420</i>
<i>Module coordinator</i>	<i>Miriam Heinrich</i>
<i>Lecturer</i>	<i>Prof. Guntram Schultz</i>
<i>Level of course</i>	<i>Bachelor</i>
<i>Recommended prerequisites</i>	<i>Basics in electrical engineering</i>
<i>Type of course</i>	<i>Lecture</i>
<i>Weekly lecture hours (SWS)</i>	<i>2</i>
<i>ECTS credits</i>	<i>2</i>
<i>Workload</i>	<i>In total 60h, 30h course attendance, 30h self-study</i>
<i>Assessment (grading; pass/fail)</i>	<i>graded</i>
<i>Regular cycle</i>	<i>Each semester</i>
<i>Language of instruction</i>	<i>English</i>
<i>Contents:</i>	<i>Power economics, conventional technologies for power generation, technologies for using renewable sources (sun, wind, water, biomass, geothermal heat), storage technologies, hydrogen economics</i>
<i>Learning outcome (competencies):</i>	<i>After having successfully completed the course, the students should</i> <ul style="list-style-type: none"> • <i>Know the worldwide demand on energy and its supply</i> • <i>Know the potential of the different sources of renewable energy</i> • <i>Understand the generation of electrical power from renewable sources</i> • <i>Understand the possibilities to store electrical energy</i>
<i>Teaching methods</i>	<input checked="" type="checkbox"/> <i>Lecture</i> <input type="checkbox"/> <i>Group work</i> <input checked="" type="checkbox"/> <i>Exercises</i> <input type="checkbox"/> <i>Simulation</i> <input type="checkbox"/> <i>Video feedback</i> <input type="checkbox"/> <i>Others:</i>
<i>Assessment methods</i>	<i>Written Exam</i>
<i>Recommended reading</i>	<i>script and recommended literature on renewable energy from reading list</i>
<i>Additional information</i>	
<i>Recognition of credits</i>	