

Course code																																	
Type and description	Elective Course in Physics																																
ECTS credit	1																																
Course name	Modern Physics 2																																
Course name in Polish	Fizyka Współczesna 2																																
Language of instruction	English																																
Course level	8 PRK																																
Course coordinator	prof. dr hab. inż. Tomasz Czyszanowski																																
Course instructors	prof. dr hab. inż. Tomasz Czyszanowski																																
Delivery methods and course duration	<table border="1"> <thead> <tr> <th></th> <th>Lecture</th> <th>Tutorials</th> <th>Laboratory</th> <th>Project</th> <th>Seminar</th> <th>Other</th> <th>Total of teaching hours during semester</th> </tr> </thead> <tbody> <tr> <td>Contact hours</td> <td></td> <td></td> <td></td> <td>15</td> <td></td> <td></td> <td>15</td> </tr> <tr> <td>E-learning</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> <td></td> </tr> <tr> <td>Assessment criteria (weightage)</td> <td></td> <td></td> <td></td> <td>100%</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester	Contact hours				15			15	E-learning	No	No	No	No	No	No		Assessment criteria (weightage)				100%			
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Course objective	Presentation of foundations of nuclear physics and evolution of stars																																
Learning outcomes	Student recognizes differences between nuclear fission and fusion. Student knows stages of evolution of stars. (W4, U4, K1)																																
Assessment methods	Written test and presentation																																
Prerequisites	Knowledge on classical physics (basic level), knowledge on quantum physics (basic level)																																
Course content with delivery methods	<ol style="list-style-type: none"> 1) Atomic nucleus 2) Nuclear fusion 3) Nuclear fission 																																

		<p>4) Ionizing radiation</p> <p>5) Evolution of stars</p>
Basic materials	reference	Fundamentals of physics, volume 5, Halliday, Resnick and Walker
Other materials	reference	Scientific papers
Average workload classroom	student outside	10 h
Comments		
Last update		