DOCTORAL STUDIES COURSE UNIT DESCRIPTION

<table>
<thead>
<tr>
<th>Subject</th>
<th>Scientific Field</th>
<th>Center</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subatomic Physics</td>
<td>Physics N 002</td>
<td>Center for Physical Sciences and Technology</td>
<td>Nuclear Research</td>
</tr>
</tbody>
</table>

Student’s workload

<table>
<thead>
<tr>
<th>Activity</th>
<th>Credits</th>
<th>Consultations</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures</td>
<td>3</td>
<td>Consultations</td>
<td>1,5</td>
</tr>
<tr>
<td>Individual study</td>
<td>4,5</td>
<td>Seminars</td>
<td></td>
</tr>
</tbody>
</table>

Course annotation


Fission of heavy nuclei by neutrons and chain reaction. Nuclear reactors.

Light nuclei fusion reactions and fusion energy. Controlled fusion implementation problems.


List of literature


Consulting teachers

<table>
<thead>
<tr>
<th>Name</th>
<th>Scientific degree</th>
<th>Pedagogical name</th>
<th>Main scientific works published in a scientific field in last 5 year period</th>
</tr>
</thead>
</table>
3. Reklaitis, J., Barkauskas, V., Plukis, A. et al. Emission and dose characterization of the 1 kHz repetition rate high-Z metal Kα source


Certified during Doctoral Committee session 30/03/2021, protocol No. 120000-KT-39

Committee Chairman prof. S. Juršėnas