Learning objectives of the subject

Learning outcomes:

- Define radioactivity and describe the main features of radioactive processes.
- Identify and explain the effects of the passage of ionizing radiation through matter.
- Solve basic problems related to nuclear structure, radioactivity and interaction of ionizing radiation with matter.
- Identify some of the nuclear reactions of interest to nuclear engineering.
- Enumerate the main features of a nuclear reactor.

Study load

<table>
<thead>
<tr>
<th>Total learning time: 75h</th>
<th>Hours large group: 27h</th>
<th>36.00%</th>
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</thead>
<tbody>
<tr>
<td>Self study:</td>
<td>48h</td>
<td>64.00%</td>
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The assessment of the learning process is based on the following activities, each one having a weight of 25% in the final grade:

1. A written test, with both theoretical and practical questions.
2. A set of exercises to be delivered in written form along the extent of the course.
3. Oral presentations of the work done.
4. Short quizzes posed during class sessions.

Bibliography