Online courses in radiation protection

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Background

- In Sweden the following courses in radiation protection are organized by the authorities:
  - Emergency preparedness and radiation protection in radiological and nuclear emergencies (7.5 hp)
  - Radiation protection and environmental effects of the different stages of the nuclear fuel cycle (7.5 hp)
  - Detectors and measurement methods in radiation protection and emergency preparedness (15 hp)
  - Radiation protection in emergency medical operations (7.5 hp)
- Courses are repeated about every 2nd year
The current courses

• Courses are given by the major universities in Sweden
• Participants come from the medical physicist programme and personnel from the hospitals, industries and authorities
• 3-4 days of intense seminars
• Practical moments at Barsebäck nuclear power plant
The new Masters Programme

• The demand for specialized radiation protection physicists is growing
• A new Masters programme will enable students to specialize in radiation protection after finishing a bachelor degree
• Since the only requirement is a bachelor degree the background in mathematics and physics among the student may vary
Massive Open Online Courses

- MOOC is offered by many universities
- Short bursts of information followed by active moments are for some students an effective pedagogic method
- Online courses can be taken without having to travel

Structure

<table>
<thead>
<tr>
<th>Block 1</th>
<th>Block 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video I</td>
<td>Video I</td>
</tr>
<tr>
<td>Video II</td>
<td>Video II</td>
</tr>
<tr>
<td>Video III</td>
<td>Video III</td>
</tr>
<tr>
<td>Quiz</td>
<td>Quiz</td>
</tr>
<tr>
<td>URL Online source</td>
<td>URL Online source</td>
</tr>
<tr>
<td>Quiz</td>
<td>Quiz</td>
</tr>
</tbody>
</table>
Material and method

- [moodle](https://moodle.org) is an open-source platform for online courses
- The material is enabled as a web-page and no installation or downloads is needed
- Videos are uploaded as unlisted clips on [YouTube](https://youtube.com)
- Links to the clips are embedded in the course page
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