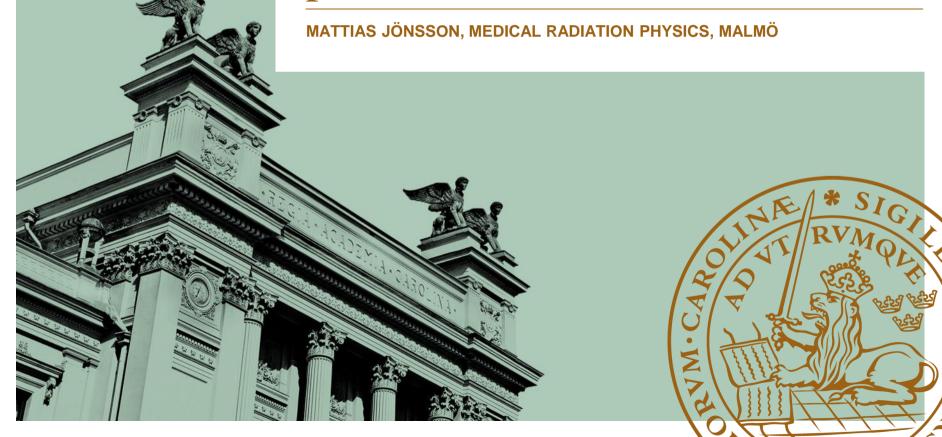


Online courses in radiation protection



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

Block 1

- Video I
- Video III
- ☑ Quiz

Block 2

- **URL** Online source
- ☑ Quiz



Material and method

- moode 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 You Tube
- Links to the clips are embedded in the course page



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