

Physical aspects of radiation protection

Lecturers

Stéphane SIMON (Coordinator) and Nicolas PAULY

Course mnemonic

PHYS-H516

ECTS credits

3 credits

Language(s) of instruction

French

Course period

First term

Course content

Elements of radiation protection, radiation shielding for various sources of radiation (X-ray, neutrons, charged particles,...), general principles of decontamination

Objectives (and/or specific learning outcomes)

Explain the basic elements of radiation protection, in particular for medical applications

Teaching method and learning activities

course + exercises (including Monte Carlo simulations) + laboratories

References, bibliography and recommended reading

Radiation Shielding, J. K. Shultis, American Nuclear Society, 2000

Other information

Contact(s)

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Evaluation method(s)

Oral examination

Evaluation method(s) (additional information)

Oral examination

Determination of the mark (including the weighting of partial marks)

70% for the oral examination, 30% for the exercises and laboratories

Main language(s) of evaluation

English

Programmes

Programmes proposing this course at the Brussels School of Engineering

MA-IRCB | Master of science in Biomedical Engineering | finalité Professional/unit 2 and MA-IRPH | Master of science in Physical Engineering | finalité Professional/unit 2