

Evaluation of the risks from radioactive releases into the environment in normal and accidental situations and nuclear emergency plans

The version you're consulting is not final. This course description may change. The final version will be published on 1st June.

3.00 credits	30.0 h + 15.0 h	Q2
--------------	-----------------	----

Teacher(s)	Jamar François ;
Language :	French
Place of the course	Bruxelles Woluwe
Main themes	1st part. Potential releases from nuclear installations in normal and accidental situations: transfer of radioactivity through the ecosystems up to the food chain; measurement of radioactivity in the environment; description of an operational network. 2d part . Evaluation of the consequences of real or potential releases in the first phase of a nuclear accident: models (use and limitations), decision-aiding techniques, practical training; a posteriori evaluation of the consequences of nuclear releases: models, parameters, hypotheses and examples. 3d part. National nuclear emergency plans: principles of protection of the population in nuclear accidents: concepts, possible countermeasures and their justification, choice of intervention levels and intervention zones; maximum permitted levels of radioactive contamination of foodstuffs: regulations and recommendations (elaboration and use); agricultural countermeasures before, during and after a nuclear accident.
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>1 To acquire the theoretical and technical knowledge allowing a critical comprehension of the way nuclear risks are evaluated (risk of release and consequences) and protective measures (for the population and the food chain) are decided and implemented.</p>
Faculty or entity in charge	CRPR

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Certificat universitaire en physique d'hôpital	RPHY9CE	3		