Université catholique de Louvain - Evaluation of the risks from radioactive releases into the ronment in normal and accidental situations and nuclear emergency plans - en-cours-2020-wror2120



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

Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).

3 credits	30.0 h + 15.0 h	02
5 credits	30.011 + 15.011	QZ

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.				
Aims	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. The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".				
Faculty or entity in charge	CRPR				

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Aims		
Certificat universitaire de contrôle physique en radioprotection (Classe II)	RCPB9CE	3		٩		
Certificat universitaire de contrôle physique en radioprotection (Classe I)	RCPA9CE	3		٩		