CES8AJ CE PETRUS

CES8AJ		ECTS Credits: 4	Semester: S8	
PETRUS - Storage of radioactive waste			Duration: 36 hours	
Person(s) in charge:				
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Keywords:				
storage				
Prerequisites: None				
Program and contents:				
Program and contents: This module is made in English. The course takes place on the two weeks at the end of June and on the first two weeks of September in Prague. The standard elective courses of the second semester are replaced by project hours. Content - Program Introduction Basic facts and definitions Radioactivity and radioactive decay, nuclear collisions Fuel management, Mining, milling and enrichment of uranium Power reactiv Reprocessing and recycling uranium fuel, Waste treatment Safety management > Transfer of radionucities > Natural analogue Varieties of analogue studies (Chemical, Natural, Archaeological) Analogues of transport and reladation Case histories (Oko natural fission reactors, Cigar Lake mine, Inchtuthi Roman nails.) Application of analogue information, support to safety demonstration > Probabilistic tools for safety management of the geological disposal Multiple randow variables, induction to reliability methods, simulation of random variables Multiple random on train dispose of moductions Protection Undock reminder on fuel cycle and Wastes associated with each step Expirimental Impact, notions of radioprotection Water so analogue information, support to safety demonstration > Robacactive Wa				
Evaluation:				
Vritten test	Continuous assessment	Oral presentation	Project	Written report