

N32* Part-Time Experimental Reactor Physics (Prague, Czech Republic)

The module takes place at the Training Reactor VR-1 which is operated by Czech Technical University in Prague. The module consists of various experiments and hands-on training focused on the reactor and neutron physics, nuclear reactor dynamics, nuclear safety, and operation of nuclear reactor. The participants take active part in all experiments, and independently evaluate experimental data. The principles of neutron detection, the importance of delayed neutrons and their properties, the operating parameters of nuclear reactor, basic phenomena of reactor kinetics and dynamics are studied and demonstrated during various reactor experiments and measurements. Knowledge of the reactor I&C and safety aspects of nuclear reactor operation are gained during the hands-on reactor control.