



## Program of the Nuclear Research Reactor Practicum

January 11 – January 27, 2023

Wednesday January 11, 2023			
Time	Module	Location	Lecturer
19:00-21:00	Welcome dinner	Castle Resident restaurant	L. Sklenka J. Rataj
Thursday January 12, 2023			
9:00-10:00	Welcome meeting - logistic & organization issues, pre-test	Room 627	L. Sklenka J. Rataj
10:15-11:30	How does a nuclear reactor work?	Room 632	L. Sklenka
11:30-12:30	Lunch break		
12:30-13:45	Construction and operation of nuclear power plants	Room 632	T. Bílý
14:00-16:00	The VR-1 reactor	Reactor hall	F. Fejt
Friday January 13, 2023			
9:00-11.30	Introduction to neutron and reactor physics	Room 632	L. Frýbortová
11:30-12:30	Lunch break		
12:30-14:30	Introduction to safe and secure operation of nuclear reactors	Room 632	L. Frýbortová
15:00-16:00	Introduction to radiation protection and radioactive waste management	Room 632	T. Bílý
Saturday & Sunday January 14-15, 2023			
Free day			

<b>Monday January 16, 2023</b>			
9:00-10:45	The nuclear fuel cycle of a nuclear reactor	Room 632	L. Sklenka R. Starý
11:00-12:30	Safeguards at a nuclear reactor Safeguards in practice	Room 632 Reactor hall	M. Šedlbauer M. Šedlbauer
12.30-13.30	Lunch break		
13:30-16:00	Radiation detection in practice	Laboratory	O. Huml
<b>Tuesday January 17, 2023</b>			
7:45	Departure from the hotel to Plzeň		
9:30-12:00	Skoda Nuclear machinery	Plzeň	M. Cesnek
12:00-14:00	Lunch break	Plzeň	M. Cesnek
16:00	Arrival back to Prague		
<b>Wednesday January 18, 2023</b>			
9:00-12.00	Neutron detection in practice	Reactor hall	O. Huml
12.00-13.00	Lunch break		
13:00-16:00	Delayed neutrons in practice	Reactor hall	J. Rataj
<b>Thursday January 19, 2023</b>			
09:00-12:00	National radiation protection institute	SURO	O. Novák
12.00-13.30	Lunch break & travel to Troja campus		
13:30-16:00	Operation of research reactor - reactor physic in practice	Reactor hall	L. Sklenka
<b>Friday January 20, 2023</b>			
9.00-12.00	Group A Hands-on operation of reactor Group B Neutron activation analysis in practice	Reactor hall	F. Fejt M. Štefánik
12:00-13:00	Lunch break		
13:00-16:00	Group A Neutron activation analysis in practice Group B Hands-on operation of reactor	Reactor hall	M. Štefánik F. Fejt
18:00-21:00	Course dinner	Restaurant U Holiše	L. Sklenka J. Rataj

Saturday & Sunday January 21-22, 2023			
Free day			
Monday January 23, 2023			
9:00-12.30	GOLEM fusion reactor	Břehová 7	O. Novák
12:30-13:30	Lunch break & travel to Troja campus		
13:30-16:30	Radiation monitoring in practice	Reactor hall	T. Bílý
Tuesday January 24, 2023			
7:15	Departure from the hotel		
9:30-15:00	Temelin nuclear power plant	Temelin	L. Sklenka P. Suk
18.00/18.30	Arrival back to Prague		
Wednesday January 25, 2023			
8:30-9:15	Post-test	Room 632	L. Sklenka
9:30-12:00	Nuclear security at a nuclear reactor Nuclear security in practice	Room 632 Security Laboratory	R. Starý R. Starý
12:00-12:45	Lunch break		
12:45-13:30	Evaluation meeting	Room 627	L. Sklenka J. Rataj
14:50	Departure to Vienna		
Thursday - Friday January 26-27, 2023			
	Visit of IAEA, CTBTO,...	Vienna	

Theoretical lecture
Hands-on activities
Technical visits
General issues