

SUPPLEMENTARY AGREEMENT
between
HACETTEPE UNIVERSITY
(Republic of Turkey)
and
NATIONAL RESEARCH NUCLEAR UNIVERSITY “MEPHI”
(Russian Federation)

Place _____

Date _____

The supplementary agreement is a part of Cooperation Agreement between Hacettepe University (HU), Republic of Turkey and National Research Nuclear University “MEPhI” (MEPhI), Russian Federation.

The Parties agree to launch the program of joint training of Turkish graduate students on the basis of HU master program “Nuclear Engineering” in 2018-2020. This program may provide contribution to obtaining the HU master degree and MEPhI participation documents (certificate).

The curriculum of the joint training program includes the courses of HU master program “Nuclear Engineering” and optional courses taught by MEPhI lecturers.

List of the optional courses taught by MEPhI lecturers is determined by both universities annually. Courses can be added or removed from the program by the decision of the academic committees of the universities.

Course name	Course type	ECTS
Courses that will be given by HU		
Nuclear reactor theory	Optional	8
Nuclear fuel management	Optional	8
Nuclear engineering design	Optional	8
Deterministic analyses of accidents	Optional	8
Numerical methods of radiation transport	Optional	8
Computational fluid dynamics	Optional	8
Numerical methods in engineering analyses	Optional	8
Reprocessing of spent nuclear fuels	Optional	8
Special topics in nuclear engineering	Optional	8
Courses that will be given by MEPhI		
Practical issues of NPP safety	Optional	
AES-2006 PWR (VVER-1200)	Optional	
Non-destructive testing of NPP's pipelines and equipment	Optional	
Systems of technical diagnostics for NPPs of Russian design	Optional	
Introduction to Nuclear Power Engineering	Optional	
Nuclear fuel cycle	Optional	
Radiation safety at the nuclear technology facilities	Optional	
Radiation ecology	Optional	
Non-energy application of nuclear technologies	Optional	
Main technological systems of the power unit	Optional	

Neutron-physical calculations of nuclear power installations	Optional	
Radiation physics	Optional	
Monte Carlo method in radiation transport problems	Optional	
Radiation patterns	Optional	
Radiation protection and the safety of radiation sources	Optional	
Risk assessment of nuclear facilities	Optional	
Numerical methods for solving neutron LWR problems	Optional	
WWER-1000: Basic Principles of Normal Operation and Transients	Optional	
Thermohydraulic profiling of nuclear reactor cores	Optional	
Neutron transport theory	Optional	
Nuclear reactor physics	Optional	
Contemporary and perspective nuclear fuel cycles	Optional	
Non-proliferation of nuclear materials	Optional	

Özcan Y. Gülsoy

Hacettepe University
Vice-rector

Tatiana N. Leonova

National Research Nuclear University "MEPhI"
Vice-rector

«26» September 201__

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