



# NUCLEAR POWER ENGINEERING

AT THE FACULTY OF POWER AND AERONAUTICAL ENGINEERING  
WARSAW UNIVERSITY OF TECHNOLOGY

## NUCLEAR POWER ENGINEERING

➤ TERMS OF ADMISSIONS:  
[WWW.CWM.PW.EDU.PL/EN](http://WWW.CWM.PW.EDU.PL/EN)

CANDIDATES MAY APPLY BEFORE THE SUMMER,  
OR BEFORE THE WINTER SEMESTER.  
THE STUDIES MAY BEGIN FROM THE FIRST, OR  
FROM THE SECOND SEMESTER.

BY 2015,  
EDUCATION WILL BE  
FREE FOR FOREIGNERS



**MORE INFORMATION:**  
**NIKOLAJ UZUNOW**  
[UZUNOW@ITC.PW.EDU.PL](mailto:UZUNOW@ITC.PW.EDU.PL)  
**+48 22 234 52 97**

## 2<sup>ND</sup> DEGREE STUDIES 4 SEMESTERS

the first semester is a summer semester

## IN ENGLISH

IN COLLABORATION WITH  
THE FACULTY OF PHYSICS, WUT  
**NATIONAL CENTRE  
FOR NUCLEAR RESEARCH**

Come to the Faculty of longest tradition and  
largest experience in education in the field  
of nuclear power in Poland, at the largest  
and best national technical university!

- Young and vigorous group of teachers
- Modern didactic programme
- Collaboration with world leading centres
- Exercises at the MARIA research reactor
- Internships abroad
- Broad opportunities of professional career



## PROGRAMME:

- ELEMENTS OF NUCLEAR PHYSICS;
- NUCLEAR REACTOR PHYSICS
- CONTEMPORARY NUCLEAR REACTOR SYSTEMS
- NUCLEAR FUELS AND FUEL CYCLES;
- NUCLEAR INSTRUMENTATION AND CONTROL
- NPP SAFETY
- NPP OPERATION AND MAINTENANCE;
- GENIV NUCLEAR REACTOR SYSTEMS
- THERMONUCLEAR SYNTHESIS
- NUCLEAR ENERGY AND INTERNATIONAL SECURITY
- GENERAL COURSES (MAINLY ON MODELLING AND SIMULATION)
- INTERNSHIP AT A NUCLEAR INSTALLATION

Diploma internships at nuclear installations - foreign (France, Germany, USA, Sweden, Switzerland, Belgium) or national (NCBJ - Świerk, IChTJ)

### Collaboration with

- leading universities (KTH - Royal Institute of Technology, Stockholm; TUD - Technische Universitaet Dresden; IZEN - International Institute of Nuclear Energy, Paris; Oregon State University; et al),
- research institutes (NCBJ - National Centre for Nuclear Research; IChTJ - Institute of Nuclear Chemistry and Technology; CEA - Commissariat a l'Energie Atomique, France; HZDR - Helmholtz Zentrum Dresden-Rosendorf; CERN - Organisation Europeene pour la Recherche Nucleaire, Geneve; et al),
- enterprises (PGE Energia Jądrowa; Areva; Westinghouse; General Electric - Hitachi; EDF; GDF-Suez; CEZ; et al).

## REQUIREMENTS FOR CANDIDATES:

- BACHELOR OR MASTER DEGREE IN ENGINEERING OR UNIVERSITY PHYSICS
- EQUALISING EXAM ON THERMODYNAMICS (DURING THE STUDIES)
- IF NEEDED, OTHER EQUALISING EXAMS (DURING THE STUDIES)



## CAREER OPPORTUNITIES:

- branch companies - PGE, Enea, Tauron, EDF, GDF-Suez, RWE, Vattenfall, Areva, General Electric, Westinghouse
- company research and development departments
- universities and research centres - doctor studies/research projects
- state administration units (nuclear regulatory body, technical inspection)