早稲田大学
WASEDA University

Joint Department of Nuclear Energy

(Department of Nuclear Engineering)
Graduate School of Advanced Science and Enginering
Faculty of Science and Engineering
Waseda University

Faculty of Science and Engineering
Waseda University

3 Schools with total of 17 departments

Schools of/ Garduate Schools of

Fundamental Science and Engineering,

Creative Science and Engineering,

Advanced Science and Engineering

Aprrox. 7500 undergraduate, 2600 graduate students

600 full time professors/assistants

5 graduate programs established in April 2010

Major in Business Design and Management

Major in Electronic and Photonic Systems

Cooperative Major in Advanced Biomedical Science (Waseda-Tokyo Womens Medical Univ.)

Cooperative Major in Advanced Health Science (Waseda-Tokyo University of Agriculture and Technologies)

Cooperative Major in Nuclear Energy (Waseda-Tokyo City Univ.)

(Now called Joint Department of Nuclear Energy)

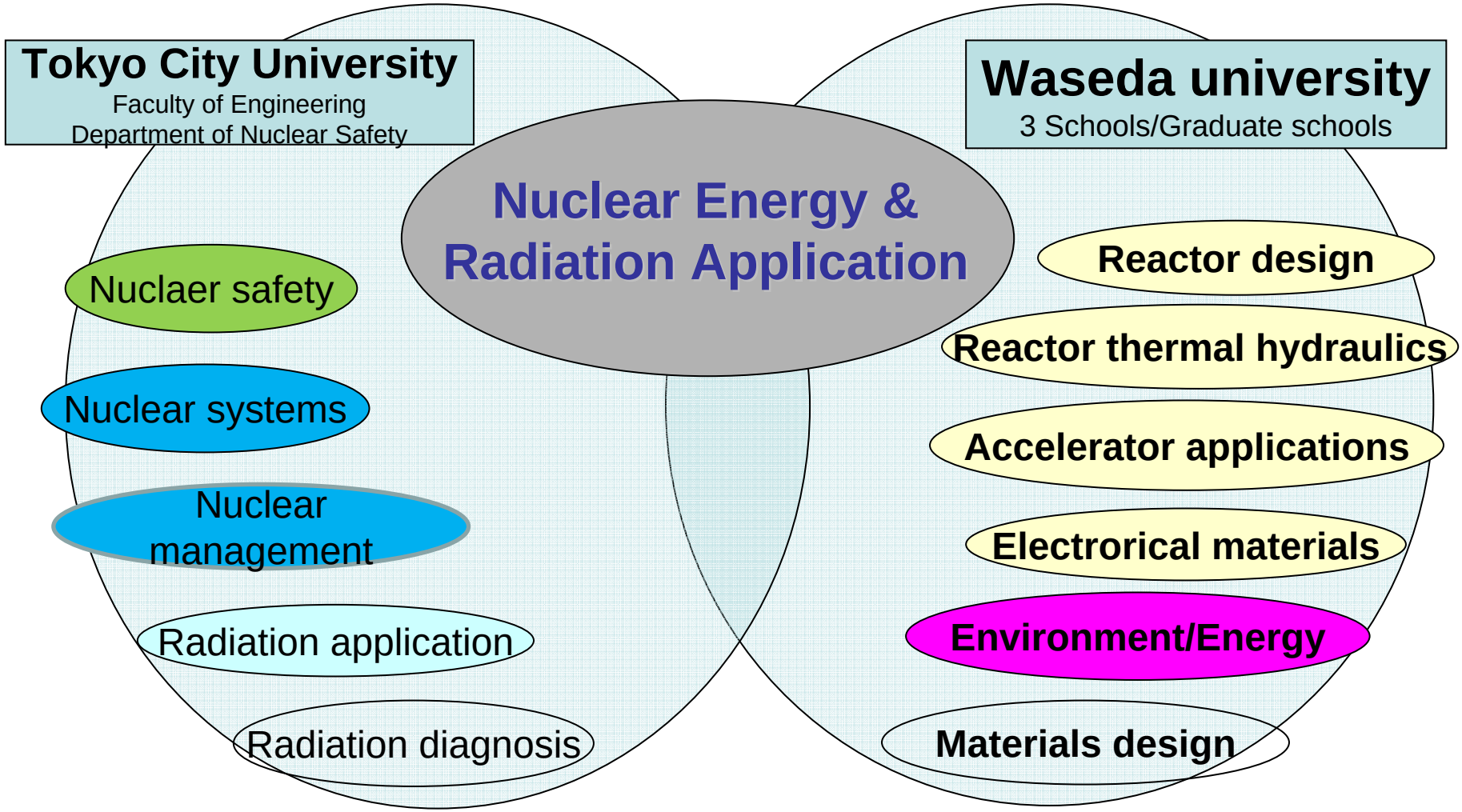
Joint Department of Nuclear Energy
(Department of Nuclear Engineering)

Capacity of graduate students
Master 30/year (15 each university), total 60 students
Doctor 8/year (4 each university), total 24 students
Students belong to either Waseda university or Tokyo City University, being admitted by the entrance examination (Examination is held separately.)
Students have to take 10 units of the partner university classes

Collaboration agreement singed by both presidents, April 27, 2009

Joint Department of Nuclear Energy

Waseda University; popular in fundamental science and engineering as well as accelerator/radiation applications
Tokyo city University; Nuclear safety engineering and research reactor applications



Lectures and experiments

- Reactor physics
- Nuclear engineering
- Reactor design
- Nuclaer safety
- Nuclear power plants & control
- Nuclear structural mechanics and nuclear powerplant mainmenance
- Reactor thermal hydraulics
- Nuclear materials/Nuclear fuel
- Radiation information processing
- Acccelerator applications
- Nuclear law/ crisis management
- Nuclear experiments
- Reactor operation experiments
- Acccelerator experiments

Nuclear anti-seismic engineering
Nuclear fusion reactor
Nuclear fuel cycle
Radiation detection
Reactor detection
Radio chemistry
Non-linear/complex systems
Radiation control & applications
Human factors
Energy policy
Electrical grids & management

Specal excercises of research labolatories

Professors of Waseda University, JDNE

Yoshiaki Oka

http://www.f.waseda.jp/okay/

advanced reactor design, core physics, nuclear safety, computational physics, radiation transport/shielding

Dep.of Applied Physics

Masakazu Washio

http://www.f.waseda.jp/washiom/

accelerator science, radiation physics, radiation chemistry, radiation engineering;

Dept. of Applied Physics

Shinichi Morooka

http://www.f.waseda.jp/morooka/

reactor thermal hydraulics, heat transfer, reactor safety,next generation reactors, measurements of heat transfer

Major in Modern Mechanical Engineering

Yoshimichi Ohki

http://www.f.waseda.jp/yohki/

electrical insulating materials, dielectrics, ion engineering;

Dept. of Electrical Engineering and Bioscience

Comprehensive collaboration agreement signed between JAEA, Waseda University and Tokyo City University

Reactor and fuel cycle experiments will be held at JAEA facilities

Study of Nuclear Engineering at Waseda university（Admission information)

- International admission office; http://www.waseda-iao.jp/waseda/e/index.html, The number of international students of Waseda University is the the largest in Japan.
- JDNE has not yet opened the English course, but the professors will accept graduate students of Department Applied physics (prof. Oka and prof. Washio),Department of Modern Mechanical Engineering (prof. Morooka) and Department of Electrical Engineering and Bioscience (prof. Ohki) of Faculty of Science and Engineering. Please refer to International Program AO admission; http://www.sci.waseda.ac.jp/abroad/english/index.html
- Instructions for thesis study will be given in English. You will find foreign post docs and assistants in their labs.
- Reactor studies and accelerator (radiation) applications will be major subjects.