



# *Nuclear Technology Human Resource Development*

Associate Prof.Dr.Sunchai Nilsuwankosit  
Department of Nuclear Technology  
Faculty of Engineering  
Chulalongkorn University



## *Department of Nuclear Technology Objectives and Responsibility*

- **Produce the graduates with the master and the doctoral degrees who are fluent in the fields of nuclear engineering and nuclear technology**
- **Conduct the researches which enhance the local and the global usage of nuclear technology**
- **Provide services in nuclear technology to government agencies, private companies, public groups and persons**
- **Apply nuclear technology to study and preserve the national heritages**



## Bachelor of Science Program (Nuclear Engineering)

- First proposed for Chulalongkorn University's 7<sup>th</sup> Development Plan (1992-1996)
  - To provide and develop the educational program in nuclear engineering in the country
  - To produce the man power for supporting the development and the implementation of nuclear industry in the country
  - To conduct the research and provide public service in nuclear technology
- The program was accepted by the Faculty of Engineering but was postponed by the university.



## Bachelor of Science Program (Nuclear Engineering)

- If the government give the final approval for the nuclear program to proceed in year 2010, a large number of human power in nuclear technology, especially in nuclear engineering will be needed. In such case, the department will submit the bachelor program to the university for re-consideration.



## Bachelor of Science Program (Nuclear Engineering)

### Program Outline

General Education	24 Credits
Basic Science	24 Credits
Basic Engineering	23 Credits
Basic Nuclear Engineering	24 Credits
Advance Nuclear Engineering	24 Credits
Others	24 Credits
<b>Total</b>	<b>143 Credits</b>



## Bachelor of Science Program (Nuclear Engineering)

### **Basic Nuclear Engineering**                      24 Credits

Introduction to Nuclear Engineering and Nuclear Technology, Radiation Measurement and Protection, Radiation Detecting and Measuring Devices, Radiation and Environment, Radiation Effects, Radiation Safety, Reactor Theory, etc.

### **Advance Nuclear Engineering**                      24 Credits

Thermal Hydraulics, Reactor Operation, Nuclear Fuel and Materials, Nuclear Safety, etc.



- **Current Cirricula**

*Master of Science*

*(Nuclear Technology)*

*Master of Engineering*

*(Nuclear Engineering)*

*Doctor of Engineering*

*(Nuclear Engineering)*