

Introduction to HEU Master of Nuclear Science and Technology in English

Name of Specialty: Nuclear Science and Technology

Credit System: 3 year(s)

Cultivation Objective:

Nuclear Science and Technology is a comprehensive discipline consisting of basic science, technology and engineering. Desired outcome:

1. Develop correct values and a correct outlook on life and on the world. Develop an attitude of seeking truth through precise research. Develop good mental character and strong teamwork skills. Develop a sense of professionalism, academic integrity and academic excellence benefit society and the nuclear industry.
2. Develop a good foundation of mathematics and physics. Obtain a solid theoretical foundation in nuclear energy science and engineering, nuclear fuel cycle, nuclear technology application, radiation protection and related applications. Obtain a systemic knowledge of the chosen field of research. Develop the ability to summarize and evaluate literature in the chosen field. Be able to write a dissertation, express academic ideas and discuss research questions with a focus in international cooperation. Be able to communicate in Chinese.
3. Develop the ability to work in the chosen field of research or be independently responsible for technical development independently. In the chosen field obtain success in either research or practical application.

Requirements:

1. Credit Requirements:

The Master course requires 26 total credits, in which, not less than 14 credits for degree courses (the public degree courses, discipline degree courses), 5 credits for synthesis program (the experimental course, literature review report, academic activities), and 7 credits for optional courses.

2. Graduation and Paper Requirements:

(1) Master student must fulfill all academic credit requirement within the specified period of time.

(2) One paper related to research is required to be accepted or published by an academic journal or academic meeting, before applying for the Master degree. The student must be the first author or second author provided the first author is the student's advisor. He/she must list Harbin Engineering University as his/her institution, or list in first if he/she is listing other institutions.

Major Course:

Chinese
Survey of China
Math in Physics
Numerical Methods
Nuclear Physics
Nuclear Chemistry
Nuclear Reactor Engineering
Transition Element Chemistry
Accelerator Physics
Protection Against Ionizing Radiation and Safety of Radiation Sources
Report of Literature Review
Academic Activities
Comprehensive Experiment
Two-phase Flow and Boiling Heat Transfer
Safety Analysis of Nuclear Power Plant
Nuclear Power Plant Simulation
Computing Methods in Reactor Physics
Thermal-hydraulics in Nuclear Power Technology
Nuclear Fuel Cycle Technology
Environment Radiation and Measurement
Particle Detection and Data Processing
Nuclear Engineering Detection Instrument
Nuclear Medicine Instrument and Method
Radioactive Waste Disposal
Nuclear Safety and Culture

Graduate Degree (授予学位) : Master of Engineering

Supervisor's information:

- (1) Click to <http://studyheu.hrbeu.edu.cn>
- (2) To choose the part of admissions, then to look for the college you are interested to check the supervisors information.

Tuition Fee :

Master Program: 33000yuan RMB per year

Application Requirement:**1. Application Form**

Applicants need to register on <http://laihua.csc.edu.cn>, agency number of Harbin Engineering University is **10217**. To fill in the required blanks, submit it online, save it and print it.

2. Language Proficiency:

The TOEFL IBT score of 70 points at least, or IELTS score at least 5.5, or the relevant certificates of English as the working and learning language for university study.

3. Requirement of Highest Degree and Program:

Possess bachelor degree or equivalent in Nuclear Science and Technology or a related field.

4. Application Documents:

Provide undergraduate diploma notarized copies and the score report's transcripts or notarized copies of undergraduate courses. When the diploma is neither Chinese nor English, you should provide notarized Chinese or English translated document.

5. Research and Study Plan:

Provide research and study plan in China (1500 words at least), written in Chinese or English.

6. Recommendation Letters:

Provide recommendation letters by two professionals with the title of professors or associate professors.

7. CV or Resume

Provide the CV or Resume with personal information, educational background, work experience, skills etc.

8. Physical Examination

9. Application Deadline:

February 28 each year for September admission

Contact Information :

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