

Changes in the Content of Entrance Examination of the Department of Quantum Science and Energy Engineering

The examination contents of the department of Quantum Science and Energy Engineering (Master's Program: Special Selection Program for Working Adults, Special Selection Program for Foreign Students) are changed* as listed below from the Entrance Examination in August 2025.

*Changed parts are underlined.

(Master's Program: Special Selection Program for Working Adults)

Subjects	Description	
Math A (elective)	Differential and Integral Calculus, Linear Algebra, Vector Analysis	Choose either Math A, Math B, or Specialized subjects.
Math B (elective)	Ordinary Differential Equations, Partial Differential Equations, Fourier Series and Fourier Transforms, Laplace Transforms	
Specialized subjects (elective)	<p>Field I: Fluid Dynamics, Strength of Materials, Mechanical materials, Electromagnetics, Quantum Mechanics, Chemistry basics Field II: Radiochemistry, Radiation engineering, Reactor physics</p> <p>*Choose any two of the nine subjects (no more than one subject can be selected from Field II):</p> <p><u>Select two subjects among fluid dynamics, electromagnetics, quantum mechanics, strength of materials, and radiation basics.</u></p>	
Interview	Presentation about your study so far and research plans after entering this program	

(Master's Program: Special Selection Program for Foreign Students)

Subjects	Description	
English	At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the examinations. TOEFL iBT Home edition is acceptable. Contact the department if your native tongue is English.	
Math A (mandatory)	Differential and Integral Calculus, Linear Algebra, Vector Analysis	
Math B (mandatory)	Ordinary Differential Equations, Partial Differential Equations, Fourier Series and Fourier Transforms, Laplace Transforms	
Specialized subjects (elective)	<p>Field I: Fluid Dynamics, Strength of Materials, Mechanical materials, Electromagnetics, Quantum Mechanics, Chemistry basics Field II: Radiochemistry, Radiation engineering, Reactor physics</p> <p>*Choose any two of the nine subjects (no more than one subject can be selected from Field II):</p> <p><u>Select two subjects among fluid dynamics, electromagnetics, quantum mechanics, strength of materials, and radiation basics.</u></p>	
Interview	Presentation about your study so far and research plans after entering this program	