

## Main points of modification of Application Procedure for Admission to The Master's Program in the Graduate School of Engineering 2019

Nagaoka University of Technology will modify the examination for Master's Program as following in 2019.

(The subjects surrounded by the thick line frame is points of modification)

### Screening / Examination Procedures

The applicants will be judged on three components: oral examination, an interview, and the application documents. The applicants will be invited for oral examination and interview conducted in either Japanese or English. In Nuclear System Safety Engineering, applicants from overseas may be exempted from coming to the university for the examination, subject to the approval of our graduate school. In such cases, applicants may be required to provide alternate evidence of their academic ability.

#### 1. Oral Examination

Basic knowledge in the applicant's field of study will be examined by faculty members of the department. The applicants will be invited for oral examination and interview conducted in either Japanese or English. Test subjects are listed in the following table.

Fields of Study	Test Subject(s)
Mechanical Engineering	Basic knowledge of Mechanical Engineering (applicants do not have to choose a subject).
Electrical, Electronics and Information Engineering	Applicants should select <b>one subject</b> from each of the following two sections (i.e., a total of two subjects); 1. Electromagnetism, Electric Circuit, and Information Mathematics 2. Communication & Information, Power Engineering, and Solid State Physics
Materials Science and Technology	Applicants should choose <b>one area</b> from the following list: - Physical Chemistry - Inorganic Chemistry - Organic Chemistry (including Polymer Chemistry) - Materials Science (including Metallurgy)
Civil and Environmental Engineering	Applicants should choose <b>two areas</b> from the following list: - Structural Engineering - Concrete Engineering - Geotechnical Engineering - Hydraulics - Transportation Planning and Urban Planning - Environmental Engineering
Bioengineering	Applicants will be asked questions in their selected research area. Basic knowledge of bioscience and biotechnology will also be examined.
Information and Management Systems Engineering	Applicants will be asked questions about in their selected research area. Basic knowledge of information and management systems, or sociology and economics will also be examined.
Nuclear System Safety Engineering	Applicants will be asked questions in their selected research area. Basic knowledge of nuclear power and energy, radiation will also be examined.

#### 2. Interview