

平成 31 (2019) 年 8 月期入試における修士課程外国人別途選考（社会基盤・都市社会系）に
関する変更事項について

京都大学大学院工学研究科 社会基盤工学専攻・都市社会工学専攻

◎「Oral Exam I」について、以下の通り変更の予定である。下記では「Oral Exam I/II (800 points)」
という記述があるが、変更は Oral Exam I の部分のみである。

旧：

Oral Exam I/II (800 points):

Oral Exam I will last approximately 20 minutes and will mainly focus on the applicants' basic knowledge of specialized fields and mathematical knowledge. The fields correspond to the research that applicants intend to pursue after admission.

新：

Oral Exam I/II (800 points):

The Oral Exam I will last approximately 20 minutes and will mainly focus on **the applicants' mathematical knowledge and basic knowledge on any of the specialized subjects listed below (Structural Mechanics, Hydraulics, Soil Mechanics, Planning and Management, and Earth Resources Engineering)**. The subjects correspond to the research that applicants intend to pursue after admission. **The table below shows the ranges of questions for each subject.**

Subject	Range of Questions
Mathematics	Calculus, Linear Algebra, Vector Analysis, Complex Functions, Fourier Transform, Laplace Transform, Differential Equations, Probability and Statistics
Structural Mechanics	Force equilibrium, Sectional forces, Influence lines, Stress and strain, Mechanical properties of materials, Sectional properties, Stability of structures and static determinate/indeterminate, Statically determinate structures, Deformation of structures, Elastic buckling of columns, Statically indeterminate structures, Equations of elasticity, Work and energy, Virtual work, Energy principle
Hydraulics	Fundamentals of fluid motion, Hydrostatics, Dynamics of perfect fluids, Water waves, Viscous flows and turbulence, Dimensional analysis and similarity law, Steady pipe flows, Steady open-channel flows

Soil Mechanics	Physical properties and classification of soils, Permeability and seepage, Consolidation, Shear strength, Compaction, Earth pressure, Bearing capacity, Stress distribution, Slope stability, Ground improvement, Liquefaction, Seismic behavior
Planning and Management	Linear Programming, Nonlinear Programming, Dynamic Programming, Game theory, Network analysis, Cost-benefit analysis, Regression analysis, Urban and Regional Planning, Transportation Planning
Earth Resources Engineering	Mechanics and hydraulics in rock; Geological survey methods and resource geology; Principles, data processing/interpretation in geophysical exploration using seismic, electrical, and electromagnetic methods

※詳細につきましては、Guidelines for International Applicants to the 2020 Master's Course Program（平成31年1月上旬に公開予定）にて公表しますので、必ずご確認くださいよう、お願いいたします。

問い合わせ・連絡先

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