

Curriculum

Basic Interdisciplinary Subjects in Science and Technology

■ – Compulsory Elective Subjects ■ – Elective Subjects

Classes	1st Year	2nd Year	3rd Year	4th Year
Basic Interdisciplinary Subjects in Science and Technology	<p>English Communication I · II</p> <p>German I · II</p> <p>French I · II</p> <p>Chinese I · II</p> <p>Science of Physical Education I · II</p> <p>Basic Humanities I · II</p> <p>Basic Social Science I · II</p> <p>Basic Seminar I · II</p>	<p>English Communication III · IV</p> <p>German III · IV</p> <p>French III · IV</p> <p>Chinese III · IV</p> <p>Science of Physical Education III · IV</p> <p>Area Studies(Europe & America) I · II</p> <p>Area Studies(Asia) I · II</p>	<p>Literature</p> <p>Psychology</p> <p>Japanese Constitution</p> <p>International Relations</p> <p>International Economics</p> <p>Practical English I · II</p>	

Faculty of Science and Technology / Department of Civil Engineering
Curriculum

Specialized Education Department of Civil Engineering

■ – Compulsory Subjects ■ – Compulsory Elective Subjects ■ – Elective Subjects ■ – Free Elective Subjects

Classes		1st Year	2nd Year	3rd Year	4th Year
Specialized Education	Basic Science and Technology Subjects	Calculu I · II Physics I · II Experiments in Physics I · II Experiments in Earth Science I Biology Computer Literacy Basics of Mathematics I · II Chemistry Review Course I · II Linear Algebra I · II Physics Exercise Chemistry I · II Experiments in Earth Science II Introduction of Science and Technology Physics Review Course I · II English Review Course I · II	Earth Science I · II Experiments in Biology Ethics for Engineers	Experiments in Earth Science I · II	
	Specialized Basic Subjects	Fundamentals of Mechanics Strength of Materials Construction Materials Surveying Civil Engineering Seminar I Introduction of Civil Engineering Introduction to Design Design Techniques	Applied Mathematics I · II Numerical Simulation and Computer Programming I · II Drawing and Computer Aided Design Structural Mechanics II Hydraulics II Soil Mechanics II Basic Experiments in Civil Engineering Special Lecture on Civil Engineering Projects Mathematical Statistics Structural Mechanics Hydraulics I Soil Mechanics I Infrastructure Planning I Practice in Surveying I · II	Infrastructure Planning II English for Science and Technology	Practice in Applied Surveying and GIS

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Classes		1st Year	2nd Year	3rd Year	4th Year
Specialized Education	Planning and Management Subjects			Urban Design and Planning Workshop on Town Planning Urban Economics Urban and National Planning Water Resources Planning Public Transportation and Energy Planning	Transportation Design and Planning Project Management
	Design and Construction Subjects			Standard Methods for Soil and Material Test Hydraulics III Design of Steel Structures Methods for Construction Work Structural Mechanics III Soil Mechanics III Design of Concrete Structures	Infrastructure Maintenance
	Disaster Preparedness and Mitigation Subjects		Urban Safety Engineering	River Disaster Prevention Engineering Coastal and Ocean Disaster Prevention Engineering Geotechnical Disaster Prevention Engineering	Earthquake Resistant Design Mountain Area Disaster Prevention Engineering
	Environmental and Landscape Subjects		Landscape Design	Geo-Environmental Engineering Water Front Environmental Engineering	Water Quality Preservation Restoration of Natural Environment
	Specialized Interdisciplinary Subjects			Civil Engineering Seminar II Simulation in Civil Engineering Global Internship Exercise in Civil Engineering I · II	Graduation Research