Faculty of Science and Technology / Department of Applied Chemistry

Curriculum

Basic Interdisciplinary Subjects in Science and Technology

■ - Compulsory Subjects ■ - Compulsory Elective Subjects ■ - Elective Subjects ■ - Free Elective Subjects

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

Faculty of Science and Technology / Department of Applied Chemistry

Industrial Chemistry

Common

Curriculum

Specialized Education Department of Applied Chemistry

Classes 1st Year 2nd Year 3rd Year 4th Year Calculus I · II Earth Science I · II Linear Algebra I · II Experiments in Earth Science I · II Physics I · II Experiments in Biology Physics Exercise Ethics for Engineers Experiments in Physics I · II Chemistry I · II **Basic Science** Experiments in Chemistry I • II and Technology Subjects Biology Introduction of Science and Technology Computer Literacy Mathematics Review Course I · II Physics Review Course I · II Chemistry Review Course I · II English Review Course I · II Fundamentals of Chemical Reaction Introduction to Chemistry Applied Mathematics for Chemistry Quantum Chemistry I Basic Applied Science Electromagnetics Ouantum Chemistry II Exercise of Quantum Chemistry Organic Chemistry II Solid State Chemistry of Polymers Exercise of Organic Chemistry Polymers • Polymer Chemistry Biochemistry Synthetic Chemistry Organic Chemistry I Specialized Education Organic Chemistry for Human Life Colloid Chemistry Composite Material • Physical Chemistry II Solid State Chemistry Exercise of Physical Chemistry Metallic Materials Matter/ Physical Chemistry I Chemical Engineering Electronic Materials **Materials Chemistry** Structure Science of Materials Semiconductor Electronics Fluid Science Inorganic Chemistry II Catalysis Chemistry Exercise of Inorganic Chemistry **Environmental Materials Environmental Energy Materials** Inorganic Chemistry I Chemical Crystallography Surface Engineering • Coordination Chemistry Electrochemistry **Energy Chemistry** Engineering Mechanics Design and Drawing

Introductory Advanced Chemistry

Fundamentals of Chemical Experiments

Safety Engineering •

Analytical Chemistry •

Separation and Purification Engineering

Experiments in Applied Chemistry $\, {
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Machine Elements

Machine Design and Drawing •
Vacuum Engineering •
Instrumental Analysis

Scientific Writing and Presentation

Practical Intellectual Property Strategy

Experiments in Applied Chemistry II • IV Seminar on Applied Chemistry

Graduation Research