

## Curriculum

### Basic Interdisciplinary Subjects in Science and Technology

■ – Compulsory Elective Subjects   ■ – Elective Subjects

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

**Curriculum**

**Specialized Education Department of Mechanical Engineering**

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

Classes		1st Year	2nd Year	3rd Year	4th Year
Specialized Education	<b>Basic Science and Technology Subjects</b>	Calculu I · II Linear Algebra I · II Physics I · II Physics Exercise Experiments in Physics I · II Chemistry I · II Experiments in Earth Science I Experiments in Earth Science II Biology Introduction of Science and Technology Computer Literacy Basics of Mathematics I · II Physics Review Course I · II Chemistry 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	
	<b>Heat and Fluid</b>		Thermodynamics I Heat Engines Fluid Mechanics I Fluid Mechanics II	Thermodynamics II Heat Transfer Engineering Fluid Machenery Applied Fluid Mechanics	
	<b>Materials and Intensity</b>	Engineering Materials	Strength of Materials I Strength of Materials II	Strength and Fracture of Materials I Strength and Fracture of Materials II	
	<b>Design and Manufacturing</b>	Fundamentals of Machine Design	Machine Design I · II Machine Elements Machining Processes Plasticity and Metal Forming	Manufacturing Processes Production Control	
	<b>Motion Dynamics and Control</b>		Mechanism Mechanics I Mechanics II	Mechanical Vibrations Control Engineering I Control Engineering II	
	<b>Common</b>	Computer Programming Workshop Technology Introductory Mechanical Engineering	Computer Simulation Fundamentals of Electrical Engineering Fundamentals of Electronics Applied Mathematics I Applied Mathematics II Applied Mechanics Electromagnetism Data Analysis	Ethics for Mechanical Engineers Machine Design and Manufacturing Mechanical Engineering Laboratory Computer Aided Engineering Internship Laboratory Seminar	Measurement Engineering Topics in New Technologies English for Engineers Graduation Research