

## **Course Description**

### **Information Technology**

This course explores the development of information communication technology and the core technique of policy-information communication technology. In addition, we will discuss about techniques and policies to guide the market by looking at the development direction and prospect of information communication technology.

### **Bio-Technology**

Understanding of new technology and development of bio-technology - We will learn essential elements of bio-technology that will lead the 21st century's industry. Moreover, we are going to discuss biotechnology's development direction, prospect and strategies to develop the industry.

### **Nano-Technology**

Theory and development process of nano-technology. We will learn basic skills in order to comprehend nano-technology. We are also going to find development direction and policy direction of nano-technology and industry by looking at various cases that applied nano-technology.

### **EEWS (Energy, Environment, Water, Substantiality)**

Environment policies and international cooperation environment technology development theory. The issues that entire human beings have to solve together in the 21st century are energy, environment, water and substantiality. We are going to have a close look at these important issues in the history of civilization and are going to discuss about the ways and policies to solve the problem.

### **Convergence Technology**

We will learn basic theories and technologies of convergence technologies among science, technology, and humanities and social sciences. Through the diverse cases of convergence technologies, we will pursue the ways in which we utilize convergence technology as a major driver in our national economy and technology.

### **Food. Disease. Life**

In the 21st century, food, disease and life are issues that entire human being shave to solve together. We are going to have a close look at these important issues in the history of civilization and are going to discuss about the ways and policies to solve the problem.

### **Science Journalism Theory**

We will introduce various theories acquired during science journalism research, introduce each field of science journalism, while pursuing acquisition of new theories and knowledge.

### **Science Journalism Methodology**

In this course, we are going to provide philosophical basis in order to apply social science to research of media and journalism and mainly introduce quantitative research methodologies that are used in scientific research such as questionnaire and content analysis. In addition, we are going to introduce qualitative research methodologies and pursue comprehensive understanding of research methodology by comparing the two.

### **Information Media Industry**

We are going to put emphasis on understanding the industrial aspect of information media which became high-tech industry in the 21st century and finding out connection between information media industry and culture industry.

### **Modern Science, Technology and Civilization**

In this course, we will discuss about revolutionary change of science technology in the 20th century, its main causes, its impacts on society and expected changes in the 21st century.

### **Financial Engineering**

We will learn the multidisciplinary field involving financial theory, the methods of financing, using tools of mathematics, computation and the practice of programming to achieve the desired end results. In this course, we will study the basic concepts in order to develop our understanding of financial engineering and discuss our contemporary issues related to financial management and consulting industries.