















- Design of Physically Grounded Communication System
- Software Engineering 1, 2, 3
- Advanced Course in Database Systems
- Advanced Course on Network Engineering
- Microprocessor Architecture
- Computer Vision
- Wireless Communications
- Ad hoc and Sensor Network
- Advanced Course of Internet Backbone Architecture
- Advanced Course on Digital Communication Theory

### **Environment and Multi-Scale Dynamics Program**

- Environment and Multi-scale Dynamics: Lecture and Exercises
- Computational Structural Mechanics
- Structural Dynamics
- Aerospace Propulsion
- Space Systems Engineering
- Sustainable Architecture and Urban Design
- Environmental Resource Science of Earth
- Thermal and Reactive Fluid Dynamics
- Advanced Course of Molecular Dynamics
- Introduction to Turbulence Model and Its Application
- Fundamentals of Turbulence and Its Theory

### **Open Systems Management Program** <to be approved>

- Open Systems Management: Lecture and Exercise <to be approved>
- Operations Management <to be approved>
- Applied Statistical Analysis
- Advanced Financial Engineering 1
- Modeling and Analysis of Stochastic Systems
- Advanced Course in Database Systems
- System Simulation
- Software Engineering 1
- Selected Courses of International Exchange Program offered by Keio Business School

### **Ph.D. Program**

The Graduate School of Science and Technology consists of three sub-schools and each sub-school consists of several Centers for learning and research. Students become members of one of the sub-schools and conduct research under the supervision of a faculty advisor who is a member of one of the centers within the given sub-school. For more information on how advisors are selected, please see "Eligibility & Application" and visit our website regarding three sub-schools.

Ph.D. students may pursue studies leading to any of the following degrees: Ph.D. in Engineering, Ph.D. in Science, Doctor of Arts.

## **Double Degree Program**

# **Double Degree Program & T.I.M.E. Association**

Since 2005, Keio has been exchanging students under the Double Degree Program with Groupe des Ecoles Centrales (EC) in France. In October 2007, Keio became a member University of the Top Industrial Managers for Europe (T.I.M.E.) Association. T.I.M.E. is a network of over 50 leading engineering schools and technical universities. Through a system of voluntary bilateral agreements between its members, T.I.M.E. offers the promotion and recognition of academic excellence and relevance to the international labor market in the form of double degrees in engineering and related fields. By joining this prestigious association, Keio will be able to extend its Double Degree Program to universities in other countries within this network. Please visit the web site: <http://www.st.keio.ac.jp/contents/ic/dd/index.html>

### **Xavier Arouette (Master's and Double Degree students from EC-Nantes)**

The Double Degree Program is a unique opportunity to study abroad in a prestigious university. I decided to apply for Keio University because I wanted to study in a completely different environment to gain experience and discover a new culture.

The Program offers the opportunity to conduct research for two years with the supervision of an advisor. This completely differs from what we can do at the Ecoles Centrales. Research is really different from lectures because you can explore by yourself various ways to solve a problem with the support of your advisor. That way, you can gain experience and develop new skills. Keio University offers you the best equipment and environment to complete your research successfully. Moreover, studying at a famous university such Keio can be really helpful if you intend to work for an international company.

Another advantage is you can take lectures in English because it would have been too difficult, at first, to have Japanese lectures. But, gradually, you can learn Japanese, practice it with your Japanese friends and can enjoy daily life in your laboratory and in Japan.

Aside from studies, you will meet a lot of friends from all over the world and be able to take part in activities offered by the numerous clubs of Keio. You will enjoy parties and trips with your laboratory colleagues and friends. Also, you will discover a new culture and during these two years, you will have time to enjoy your new life in Japan!