# PROSPECTUS FOR INTERNATIONAL GRADUATE PROGRAM 2010
# NAGOYA INSTITUTE OF TECHNOLOGY

## 1. General Information

Nagoya Institute of Technology (hereinafter referred to as NIT) provides International Graduate Programs for studying advanced theories and technologies in the Department of Materials Science and Engineering, the Department of Architecture, Civil Engineering and Industrial Management Engineering, the Department of Frontier Materials, and the Department of Scientific and Engineering Simulation. The lectures and seminars in these programs are generally given in English, so that qualified applicants are accepted even with little or no Japanese literacy. The applicants are not required to go to the preparatory Japanese classes, unlike the conventional graduate programs. However, the accepted students are strongly recommended to study Japanese during their postgraduate studies, since Japanese is essential for daily life in Japan and for finding employment in Japan after completion of their postgraduate studies. NIT provides Japanese language classes, in addition to the respective specialized courses.

## 2. Programs

The NIT International Graduate Programs include the Master's Degree Program and the Doctoral Degree Program in the Department of Materials Science and Engineering, the Department of Architecture, Civil Engineering and Industrial Management Engineering, the Department of Frontier Materials, and the Department of Scientific and Engineering Simulation. The applicants are requested to choose either of the programs according to the application procedure. The lectures, seminars, and individual advices are generally given in English in both the programs, though some may be given in Japanese with the advancement of the student's Japanese competence.

### (1) Master's Degree Program

The Master's Degree Program is provided for the four departments and gives lectures and seminars on advanced theories and technologies in the respective fields. The student must submit a master's degree thesis and pass the final examination for obtaining a master's degree in his/her selected field. For evaluating the student's competency in the field, the presentation of his/her research in an international conference is recommended.

1) Materials Science and Engineering

The student selects one of the five fields: Organic Materials, Inorganic Materials, Chemical Process, Materials Function and Design, and Life Function. The prospective advisers and lectures in the respective fields are shown in Tables 1-1 and 1-2.

2)Architecture, Civil Engineering and Industrial Management Engineering

The student selects one of the four fields: Human Space, Civil Engineering, Environmental Engineering and Disaster Prevention, and Management Engineering. The prospective advisers and lectures in the respective fields are shown in Tables 2-1 and 2-2.

3) Frontier Materials

The student selects one of the three fields: Environmental Ceramic Materials, Advanced Energy Materials, and Molecular Life Science and Nanotechnology. The prospective advisers and lectures in the respective fields are shown in Tables 3-1 and 3-2.

4) Scientific and Engineering Simulation

The student selects one of the three fields: Computational Applied Sciences, Computer Science and System Engineering, and Simulation in Civil Engineering and Architectural Systems. The prospective advisers and lectures in the respective fields are shown in Tables 4-1 and 4-2.

**(2) Doctoral Degree Program**

The Doctoral Degree Program is provided for the four departments and gives specialized advices for the student's progress and training by a supervisor and an advisory group in each field. The doctoral degree is offered based on the student's doctoral thesis and the result of a final examination. In order to acquire the expertise and the comprehensive insight, the internship in some enterprise or academic organization is recommended in this program.

1) Materials Science and Engineering

The student has research training for advanced theories and technologies in one specialized field selected among Organic Materials, Inorganic Materials, Chemical Process, Materials Function and Design, and Life Function. The research specifically focuses on development of new

materials with superior functions, properties, and characteristics in a wide range of chemical fields. The prospective supervisors and advisors are shown in Table 1-1.

2)Architecture, Civil Engineering and Industrial Management Engineering

The student has research training for advanced theories and technologies in one specialized field selected among Human Space, Civil Engineering, Environmental Engineering and Disaster Prevention, and Management Engineering. The main objective of research is to attain the human-friendly and environment-friendly social spaces and infrastructures by the technologies related to architecture, civil engineering and industrial management. The prospective supervisors and advisors are shown in Table 2-1.

3) Frontier Materials

The student has research training for advanced theories and technologies in one specialized field selected among Environmental Ceramic Materials, Advanced Energy Materials, and Molecular Life Science and Nanotechnology. The research specifically focuses on development of environment-friendly, high-performance frontier materials in the wide range of chemical and physical fields relating to chemical conversion, energy conversion, nanotechnology, and life science. The prospective supervisors and advisors are shown in Table 3-1.

4) Scientific and Engineering Simulation

The student has research training for advanced theories and technologies in one specialized field selected among Computational Applied Sciences, Computer Science and System Engineering, Simulation in Civil Engineering and Architectural Systems. The research objectives include (1) solving the fundamental and challenging problems in science and engineering with high-performance computers and advanced software, (2) developing the design methods and tools for computer-controlled systems, information network systems, and information media systems, and (3) designing the complex systems for urban planning, civil engineering, disaster protection, and environmental problems. The prospective supervisors and advisors are shown in Table 4-1.

## 3. Japanese Government Scholarship

Applicants with excellent academic records are entitled to apply for the Japanese Government Scholarship (Monbukagakusho Scholarship). The monthly stipend of the scholarship is 154,000—158,000 (JPY) for graduate students (the amount of the scholarship is subject to change according to the rules of the Japanese Government). The successful students for the Japanese Government Scholarship are exempt from paying the entrance examination fee, the admission fee, and tuition described in Article 7. Japanese Government Scholarship will be granted to 3 students in the Master's Degree Program and to 2 students in the Doctoral Degree Program.

## 4. Qualifications

(1) The applicant for the Master's Degree Program must satisfy one of the following qualifications:

1) graduated a university or a college;
2) completed 16 years of school education abroad;
3) completed 16 years of school education in an international school or equivalent educational institution in Japan;
4) the applicant from a country where the college level education does not require 16 years' term must fulfill the following two conditions and is to be deemed by the graduate school of engineering in NIT to possess the academic ability at least equivalent to the university graduate in Japan:
   i) spent at least one year as a research student or research fellow at a university or research institute in Japan or abroad after obtaining a bachelor's degree or be expected to do so by September 30, 2010
   ii) be 22 years old or older as of September 30, 2010
5) the applicant who has not satisfied any of the above four qualifications but has submitted academic papers and documents must fulfill the following condition and is to be deemed by the graduate school of engineering in NIT to possess the academic ability at least equivalent to the university graduate in Japan:
   i) be 22 years old or older as of September 30, 2010

Note: The applicant who is under category 4) or 5) is required to contact the International Student Affairs Office in NIT before submitting an application.

(2) The applicant for the Doctoral Degree Program must satisfy one of the following

qualifications:

1) obtained a master's degree from a university or a college in Japan or abroad;
2) obtained a degree equivalent to a master's degree from a university or a college in Japan or abroad; and
3) obtained a degree equivalent to a master's degree from an international school or educational institution in Japan.

(3) The applicant for the Japanese Government Scholarship must satisfy the following requirements, in addition to the qualification in 4 -(1) or 4- (2):

1) having the nationality and the residence in any of the countries to which the Japanese Government Scholarship Program is offered;
2) be under 35 years old as of April 1,2010; and
3) residing outside Japan.

## 5. Application

### A. Preliminary Selection (Documentary Examination)

The applicant is required first to contact a desired supervisor in a postgraduate advisory team and obtain the approval on his/her study in the master's degree program or the doctoral degree program.

After the approval of the prospective supervisor, the applicant is required to submit the following documents to the International Student Affairs Office in NIT (the postal address is given in Article 9) by December 18, 2009:

(1) Application form with attachment of two photos taken within the past 6 months (6 cm×4 cm) to ANNEX I and ANNEX II
(2) Certificate of citizenship
(3) Official transcript of academic record
(4) Official transcript of graduation certificate
(5) Recommendation letter from the head of the department
Please use the recommendation form attached to the application form.
(6) TOEFL score taken within the past two years
(7) Summary of thesis for Master's Course Program, or Master's thesis for Doctoral Course Program.

(8) Copy of passport with the name and photo
(9) Certificate of health

The applicant will be notified of the result of the preliminary selection by e-mail until January 8, 2010. In the event of failed reception of the notification e-mail by the expected date, please contact the International Student Affairs Office in NIT (the postal address is given in Article 9) immediately.

**B. Final Selection**

The applicant from one of the universities in the international academic exchange agreements with NIT (Beijing University of Chemical Technology and Tongji University) has an interview given in the university by the representative of the supervisors from NIT.

Otherwise the applicant to master's or doctoral degree program is subject to a final examination performed in NIT on January 29, 2010:

(1)Materials Science and Engineering
Oral Test: in the afternoon

(2) Architecture, Civil Engineering and Industrial Management Engineering
Oral Test: in the afternoon

(3)Frontier Materials
Oral Test: in the afternoon

(4) Scientific and Engineering Simulation
Oral Test: in the afternoon

## 6. Notification of Admission

NIT will notify the applicant of the result of admission by e-mail by February 18, 2010. In the event of failing to receive the notification e-mail by the expected date, please contact the International Student Affairs Office in NIT (the postal address is given in Article 9) immediately.

## 7. Entrance Examination Fee, Admission Fee, and Tuition

The entrance examination fee, the admission fee, and the tuition for 2010 are:

(1) Examination Fee: 30,000 (JPY)
(2) Admission Fee: 282,000 (JPY)
(3) Tuition: 535,800 (JPY)

The students with the Japanese Government Scholarship are exempt from paying these fees.

## 8. Accommodation

NIT has a dormitory called "International House" for overseas students in the

main campus. Although the dormitory has only a limited number of rooms, most graduate students are accepted in the dormitory for 6 months or a year.

## 9. Contact Address

International Student Affairs Office
Nagoya Institute of Technology
Gokiso, Showa, Nagoya, Aichi 466-8555, Japan
Tel:+81-52-735-5074
Fax:+81-52-735-5080
E-mail: international@adm.nitech.ac.jp

## Table 1-1: Advisers in Department of Materials Science and Engineering

| Field of Organic Materials | |
|---|---|
| Professors | Associate Professors |
| Masahiro Higuchi | Shigeru Okamoto |
| Eiji Nakanishi* | Koji Takagi |
| Masahito Suzuki | Hiroaki Yoshimizu |
| Atsushi Yoshimura | Hideo Yoshizato |
| Katsuhiro Inomata | Katsuhiro Yamamoto |
| | Hideki Sugimoto * |

| Field of Inorganic Materials | |
|---|---|
| Professors | Associate Professors |
| Manabu Gomi | Shinobu Hashimoto |
| Koichiro Fukuda | Ken-ichi Kakimoto |
| | Masanobu Nakayama |

| Field of Chemical Process | |
|---|---|
| Professors | Associate Professors |
| Shuki Araki | Yoshihito Kato |
| Hideki Mori | Masakazu Ohkita |
| Yutaka Tada | Jun-ichi Oku |
| Akio Yuchi | Kazutake Takada |
| Shinji Kawasaki | Noriyuki Sonoyama |

| Field of Materials Function and Design | |
|---|---|
| Professors | Associate Professors |
| Norihiko Fukatsu | Yasushi Hamanaka |
| Shoji Hayashi | Fumio Iwatsu |
| Osamu Yoshinari | Takao Kozakai |
| | Noriaki Kurita |
| | Keiji Okumura |

| Field of Life Function | |
|---|---|
| Professors | Associate Professors |
| Tetsuo Ohkuwa | Atsushi Aoki |
| Hajime Ohtani | Katsutoshi Hori |
| Keijiro Taga | Hiroshi Itoh |
| Toshiki Tanaka | Shinya Kitagawa |
| Hatsuo Yamamura | Akihiro Yoshino |
| Keiji Yamashita* | Isao Nakano |

*: Doctoral Degree Program only

## Table 1-2: Lectures and Seminars in Department of Materials Science and Engineering

| Lectures and Seminars | Lecturer |
|---|---|
| Field of Organic Materials | |
| Advanced Molecular Designs of Polymeric Materials | Koji Takagi |
| Advanced Polymer Physical Chemistry | Masahiro Higuchi |
| Advanced Functional Polymers | Masahiro Higuchi |
| Physical Properties of Polymers | Shigeru Okamoto |
| Histochemistry and Molecular Biology | Atsushi Yoshimura |
| Advanced Characterization of Functional Molecular Systems | Hideo Yoshizato |
| Advanced Polymer Synthesis | Masahito Suzuki |
| Polymeric Materials | Hiroaki Yoshimizu |
| Advanced Lecture of Polymer Structure | Katsuhiro Yamamoto |
| Advanced Polymer Composite Materials | Katsuhiro Inomata |
| Organic Materials Seminar 1 | All Professors |
| Organic Materials Seminar 2 | All Professors |
| Field of Inorganic Matereials | |
| Inorganic Crystal Chemistry | Koichiro Fukuda |
| Functional Properties of Ceramics | Ken-ichi Kakimoto |
| Advanced Thin Film Technology | Manabu Gomi |
| Advanced Fabrication of Ceramics | Keiji Daimon |
| Advanced Ceramics for Energy Conversion | Shinobu Hashimoto |
| Advanced Physical Chemistry of Ceramics | Masanobu Nakayama |
| Inorganic Materials Seminar 1 | All Professors |
| Inorganic Materials Seminar 2 | All Professors |
| Field of Chemical Process | |
| Advanced Electroanalytical Chemistry | Kazutake Takada |
| Transport Phenomena | Yoshihito Kato |
| Chemical Detection | Akio Yuchi |
| Advanced Chemical Reaction Engineering | Yutaka Tada |
| Advanced Unit Operations | Hideki Mori |
| Industrial Electrochemistry | Shinji Kawasaki |
| Advanced Organic Chemistry-Reactions | Shuki Araki, Jun-ichi Oku |
| Advanced Inorganic Reaction Chemistry | Noriyuki Sonoyama |
| Advanced Structural Organic Chemistry | Masakazu Ohkita |
| Chemical Process Seminar 1 | All Professors |
| Chemical Process Seminar 2 | All Professors |
| Field of Materials Function and Design | |
| Thermal Properties of Materials | Keiji Okumura |
| Physical Properties of Materials | Osamu Yoshinari |
| Solid State Ionics | Norihiko Fukatsu |
| Structure of Materials | Minoru Doi |
| Functions Conversion Technology | Shoji Hayashi |

| | |
|---|---|
| Analysis of Material Properties | Takao Kozakai |
| Computational Materials Science | Yasushi Hamanaka |
| Electronic Properties of Materials | Masaakii Yamada |
| Materials Function and Design Seminar 1 | All Professors |
| Materials Function and Design Seminar 2 | All Professors |

Field of Life Function

| | |
|---|---|
| Analytical Methodology for Life Science | Hajime Ohtani |
| | Shinya Kitagawa |
| Advanced Protein Engineering | Toshiki Tanaka |
| Advanced Biophysical Chemistry | Akihiro Yoshino |
| Chemistry of Biomolecular Assembly | Katsutoshi Hori |
| Bioorganic Chemistry | Hatsuo Yamamura |
| Advanced Supramolecular Chemistry | Keijiro Taga |
| Metabolism of Biological Moecules | Hiroshi Itoh |
| Advanced Biomembrane Engineering | Atsushi Aoki |
| Life Function Seminar 1 | All Professors |
| Life Function Seminar 2 | All Professors |

Other

| | |
|---|---|
| Special Lecture in Materials Science and Engineering 1 | undecided(part-time teacher) |
| Special Lecture in Materials Science and Engineering 2 | undecided(part-time teacher) |
| Special Lecture in Materials Science and Engineering 3 | undecided(part-time teacher) |
| Special Lecture in Materials Science and Engineering 4 | undecided(part-time teacher) |

Possible changes may be occurred to the Seminars below :
Seminar 1 is to be Seminar 1. 2.
Seminar 2 is to be Seminar 3. 4.

Table 2-1: Advisers in Department of Architecture, Civil Engineering and Industrial Management

| Field of Human Space | |
|---|---|
| Professors | Associate Professors |
| Kazuyoshi Fumoto | Yuka Ishikawa |
| Nobuko Fujioka | Takeyoshi Ishimatsu |
| Tetsumi Horikoshi * | Takanori Ito |
| Toshikatsu Ichinose | Noriko Kawahashi |
| Hideki Idota | Yoshinori Komatsu |
| Katsuhiro Kawata | Tatsuya Takeda |
| Shinji Kawabe | Hisashi Umemura |
| Tohru Kimura | |
| Naoji Matsumoto | |
| Akiko Mori | |
| Yasuyuki Nagafuchi | |
| Tohru Ohnuki | |
| Isao Takagi | |

| Field of Civil Engineering | |
|---|---|
| Professors | Associate Professors |
| Yoshiaki Goto | Tsumoru Fujimoto |
| Makoto Obata | Eizo Hideshima * |
| Masahisa Seguchi | Kazutoshi Nagata |
| | Takumi Uehara |

| Field of Environmental Eng. and Disaster Prevention | |
|---|---|
| Professors | Associate Professors |
| Wataru Kioka | Toshikazu Kitano |
| Akio Mizutani * | Kenichi Maeda |
| Akihiro Tominaga | Michiko Masuda |
| | Katsuya Sako |

| Field of Management Engineering | |
|---|---|
| Professors | Associate Professors |
| Ichiro Koshijima | Koji Kanda |
| Koichi Nakade | Mitsutoshi Kojima |
| Ken Nishina * | Ken Nagatani |
| Katsunori Sumi | Junichi Yokoyama |

*: Doctoral Degree Program only

**Table 2-2: Lectures and Seminars in Department of Architecture, Civil Engineering and Industrial Management**

| Lectures and Seminars | Lecturer |
|---|---|
| Field of Human Space | |
| Architectural Style | Kazuyoshi Fumoto |
| Structural Mechanics and Design | Toshikatsu Ichinose |
| Structural System | Hideki Idota |
| Analysis of Vibration in Structures | Hisashi Umemura |
| Social Engineering in Historical Context | Isao Takagi |
| Comparative Kansei | Yasuaki Hino |
| Studies of Cultural Representation | Toru Ohnuki |
| Theory of Space Design | Takanori Ito |
| Space Design Theory | Naoji Matsumoto |
| Urban Formation | Katsuhiro Kawata |
| Building Production Theory | Akiko Mori |
| Environmental Design in Architecture | Tetsumi Horikoshi |
| | Takeyoshi Ishimatsu |
| City Environment Planning | Yoshinori Komatsu |
| Theory of Product Design | Toru Kimura |
| Problems on Space Perception | Nobuko Fujioka |
| Life Cycle of Building Materials | Shinji Kawabe |
| Urban Informatics | Toshiyuki Kaneda |
| Basic Principles of Urban Environmental Design | Tetsumi Horikoshi |
| | Noriko Koresawa |
| Composite Structures | Toshikatsu Ichinose |
| Applied Architectural Planning and Design | undecided |
| Applied Structural Planninng and Design | undecided |
| Applied Facility Planninng and Design | undecided |
| Human Space Seminar 1 | All Professors |
| Human Space Seminar2 | All Professors |
| Field of Civil Engineering | |
| Structural Analysis | Yoshiaki Goto |
| Theory of Applied Mechanics | Makoto Obata |
| Structural Stability | Kazutoshi Nagata |
| Design of Compound Material | Takumi Uehara |
| Ethics in Socio-Engineering | Masahisa Seguchi |
| Environmental Engineering and Disaster Prevention Seminar 1 | All Professors |
| Environmental Engineering and Disaster Prevention Seminar 2 | All Professors |
| Field of Environmental Eng. and Disaster Prevention | |
| Hydrologic Environment | Akihiro Tominaga |
| Coastal Environments | Wataru Kioka |
| Geo-disaster System Engineering | Kenichi Maeda |
| Environmental Control Engineering | Michiko Masuda |
| Environmental Systems of Chemical Resources 1 | undesided |

| | |
|---|---|
| Environmental Statistics | Toshikazu Kitano |
| Environmental Systems of Chemical Resources 2 | Katsuya Sako |
| Human–Environment Systems | Akio Mizutani |
| Civil Engineering Seminar 1 | All Professors |
| Civil Engineering Seminar 2 | All Professors |

Field of Management Engineering

| | |
|---|---|
| Advanced Quality Management | Ken Nishina |
| Advanced Operations Research | Koichi Nakade |
| Trends in Human Factors | Koji Kanda |
| Infrastructure Economics | Mitsutoshi Kojima |
| Advanced Systems Management and Engineering | Junichi Yokoyama |
| Advanced Management Psychology | Katsunori Sumi |
| Industrial Society | Ken Nagatani |
| Advanced Project Management | Ichiro Koshijima |
| Project Systems Engineering | Yoshihiro Hashimoto |
| Management Engineering Seminar 1 | All Professors |
| Management Engineering Seminar 2 | All Professors |

Other

| | |
|---|---|
| Special Lecture in Architecture, Civil Engineering and Industrial Management 1 | undecided(part–time teacher) |
| Special Lecture in Architecture, Civil Engineering and Industrial Management 2 | undecided(part–time teacher) |
| Special Lecture in Architecture, Civil Engineering and Industrial Management 3 | undecided(part–time teacher) |

Possible changes may be occurred to the Seminars below :
Seminar 1 is to be Seminar 1. 2.
Seminar 2 is to be Seminar 3. 4.

Table 3-1: Advisers in Department of Frontier Materials

| Field of Environmental Ceramic Materials | |
|---|---|
| Professors | Associate Professors |
| Yuji Iwamoto | Nobuyasu Adachi |
| Toshitaka Ota | Yasuhiko Hayashi |
| Toshihiro Kasuga | |
| Masaki Tanemura | |
| Masayoshi Fuji | |

| Field of Advanced Energy Materials | |
|---|---|
| Professors | Associate Professors |
| Nobuo Ishizawa | Tomokatsu Hayakawa |
| Masakuni Ozawa | Takehiko Hihara |
| Tetsuo Soga | Takashi Ida |
| Yoichi Nishino | Masaki Haneda |

| Field of Molecular Life Science and Nanotechnology | |
|---|---|
| Professors | Associate Professors |
| Yoshihito Inai | Tomohiro Ozawa |
| Hideki Kandori | Takehisa Dewa |
| Takatoshi Kinoshita | Yasuhiro Funahashi |
| Hideki Masuda | Akinori Takasu |
| Norio Shibata | Shuichi Nakamura |

## Table 3-2: Lectures and Seminars in Department of Frontier Materials

| Lectures and Seminars | Lecturer |
|---|---|
| Field of Environmental Ceramic Materials | |
| Ceramic Materials for Environmental Harmony | Yuji Iwamoto Toshihiro Kasuga |
| Advanced Characterization of Nano-Materials | Masaki Tanemura |
| Microstructure of Ceramics | Toshitaka Ota Nobuyasu Adachi |
| Evaluation Methodology for Ceramics | Masayoshi Fuji |
| Physics of Nano-Functional Materials | Yasuhiko Hayashi |
| Environmental Ceramic Materials Seminar 1 | All Professors |
| Environmental Ceramic Materials Seminar 2 | All Professors |
| Introduction to Environmental Ceramic Materials | All Professors |
| Field of Advanced Energy Materials | |
| Nano- materials Properties for Energy and Functions | Masayuki Nogami Tomokatsu Hayakawa |
| Advanced analysis of crystal structures | Nobuo Ishizawa |
| Energy Environmental Materials Synthesis | Masakuni Ozawa |
| Energy Conversion Materials | Tetsuo Soga |
| Nanomechanics and Physics of Materials | Yoichi Nishino |
| Quantum-Mechanics-Based Functional Materials | undecided |
| Advanced Analysis of Energy Materials | Takehiko Hihara |
| Advanced Energy Materials Seminar 1 | All Professors |
| Advanced Energy Materials Seminar 2 | All Professors |
| Introduction to Advanced Energy Materials | All Professors |
| Field of Molecular Life Science and Nanotechnology | |
| Physical Chemistry for Advanced Materials | Takatoshi Kinoshita |
| Advanced Nano Reaction Chemistry | Tomohiro Ozawa |
| Advanced Bio-inorganic Chemistry | Hideki Masuda |
| Chemistry of Biomolecular Assembly | Takehisa Dewa |
| Advanced Protein Science | Hideki Kandori |
| Advances in Science of Biological Macromolecules | Yoshihito Inai |
| Developments in Design of Biopolymers and Biomaterials | Akinori Takasu |
| Cell Metabolism | undecided |
| Advanced Synthetic Organic Chemistry | Norio Shibata |
| Molecular Life Science and Nanotechnology Seminar 1 | All Professors |
| Molecular Life Science and Nanotechnology Seminar 2 | All Professors |
| Introduction to Molecular Life Science and Nanotechnology | All Professors |
| Other | |
| Special Lecture in Frontier Materials 1 | undecided(part-time teacher) |
| Special Lecture in Frontier Materials 2 | undecided(part-time teacher) |

Possible changes may be occurred to the Seminars below :
Seminar 1 is to be Seminar 1. 2.
Seminar 2 is to be Seminar 3. 4.

Table 4-1: Advisers in Department of Scientific and Engineering Simulation

| Field of Computational Applied Sciences | |
|---|---|
| Professors | Associate Professors |
| Masaru Sugiyama | Feng wei |
| Toshiyuki Gotoh | Norihiro Shida |
| Fumio Ohi | Yoshiaki Ozaki |
| Shuji Ogata | Ichiro Takeuchi |
| Yoshihisa Enomoto | Takeshi Watanabe |

| Field of Computer Science and System Engineering | |
|---|---|
| Professors | Associate Professors |
| Akira Iwata | Susumu Kuroyanagi |
| Yutaka Ishibashi | Shinji Sugawara |
| Hiroyuki Ukai | Tomoaki Tsumura |
| Keiichi Tokuda | Akinobu Ri |
| Hiroshi Matsuo | Akihiko Yoneya |
| Naoki Mizuno | |

| Field of Simulation in Civil Engineering and Architectural Systems | |
|---|---|
| Professors | Associate Professors |
| Hidetaka Umehara | Masami Iwamoto |
| Shigeyuki Okada | Keisuke Kitagawa |
| Cho Ho | Koji Suzuki |
| Motohiro Fujita | Hossain Md. Shahin |
| Toshiyuki Kaneda | |

Table 4-2: Lectures and Seminars in Department of Scientific and Engineering Simulation

| Lectures and Seminars | Lecturer |
|---|---|
| Field of Computational Applied Sciences | |
| Advanced Methods of Statistical Physics for Engineers | Masaru Sugiyama |
| Advanced Computational Science for Fluid Dynamics | Toshiyuki Gotoh |
| Advanced Lecture on Neural Information Processing | Ichiro Takeuchi |
| Mathematics and Simulation of Complex System | Fumio Ohi |
| Simulation for Nanotechnology | Shuji Ogata |
| Applied Statistical Simulation | Yoshihisa Enomoto |
| Advanced System Simulation | Feng wei |
| Advanced Computational Quantum Chemistry | Norihiro Shida |
| Molecular Computational Chemistry | Yoshiaki Ozaki |
| Computational Applied Sciences Seminar 1 | All Professors |
| Computational Applied Sciences Seminar 2 | All Professors |
| Introduction to Computational Applied Sciences | All Professors |
| Field of Computer Science and System Engineering | |
| Advanced Information Media Systems | Akira Iwata |
| | Susumu Kuroyanagi |
| Advanced Distributed Systems | Yutaka Ishibashi |
| | Shinji Sugawara |
| Parallel and Distributed Processing | Hiroshi Matsuo |
| | Tomoaki Tsumura |
| Pattern Recognition | Keiichi Tokuda |
| | Akinobu Ri |
| Advanced Lecture on Adaptive Systems | Naoki Mizuno |
| Electric Energy Network Systems | Hiroyuki Ukai |
| Advanced Computer Control | Akihiko Yoneya |
| Computer Science and System Engineering Seminar 1 | All Professors |
| Computer Science and System Engineering Seminar 2 | All Professors |
| Introduction to Computer Science and System Engineering | All Professors |
| Field of Simulation in Civil Engineering and Architectural Systems | |
| Urban Safety Design | Hidetaka Umehara |
| Risk Communication | Shigeyuki Okada |
| Theory and Simulation for Urban Transport Planning | Motohiro Fujita |
| Construction of Urban Infrastructures with Environmental Harmony | Cho Ho |
| Simulation in Structural Dynamics and Earthquake Engineering | Masami Iwamoto |
| Urban Infrastructure Management | undecided |
| Simulation of Geotechnical and Environmental Engineering Problems | undecided |
| Urban System Modeling | Toshiyuki Kaneda |
| Information/Space Theory | Keisuke Kitagawa |
| Simulation in Civil Engineering and Architectural Systems Seminar 1 | All Professors |
| Simulation in Civil Engineering and Architectural Systems Seminar 2 | All Professors |
| Introduction to Simulation in Civil Engineering and Architectural Systems | All Professors |
| Other | |
| Special Lecture in Scientific and Engineering Simulation 1 | undecided(part-time teacher) |

| | |
|---|---|
| Special Lecture in Scientific and Engineering Simulation 2 | undecided(part-time teacher) |

Possible changes may be occurred to the Seminars below :

Seminar 1 is to be Seminar 1. 2.
Seminar 2 is to be Seminar 3. 4.