

## 2025 Course List for International Graduate Programs (April 2025 - March 2026)

| Program                                         | Code  | Subject                                                                                                | Sem.        | Cr. | TIME        | Room           | Lecture Type | NAME                            |
|-------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------|-------------|-----|-------------|----------------|--------------|---------------------------------|
| 総合科目 (GENERAL COURSES)                          | 0490  | CROSS-CULTURAL UNDERSTANDING 1 - Today's Germany, Today's Japan<br><a href="#">Conducted in German</a> | Spring      | 2   | Mon.1       | 14/211         | ①            | YOKOYAMA YOSHIHIRO              |
|                                                 | 06071 | CROSS-CULTURAL UNDERSTANDING 2 - Today's Germany, Today's Japan<br><a href="#">Conducted in German</a> | Fall        | 2   | Mon.5       | 12/103         | ①            | YOKOYAMA YOSHIHIRO              |
|                                                 | 04576 | CROSS-CULTURAL UNDERSTANDING 1 - Discussion in French<br><a href="#">Conducted in French</a>           | Spring      | 2   | Mon.2       | 12/202A        | ①            | AGATA YUIKO                     |
|                                                 | 04595 | CROSS-CULTURAL UNDERSTANDING 2 - Discussion in French<br><a href="#">Conducted in French</a>           | Fall        | 2   | Mon.2       | 14/211         | ①            | AGATA YUIKO                     |
|                                                 | 10889 | SCIENCE,TECHNOLOGY AND CULTURE                                                                         | Fall        | 2   | Tue.1       | 12/105         | ①            | MIKAMI KOICHI                   |
|                                                 | 10582 | MACROECONOMIC DEVELOPMENTS AND ECONOMIC POLICY IN JAPAN                                                | Spring      | 2   | Tue.5       | 12/210         | ①            | KAWAGOE MASAOKI                 |
| 日本語 (JAPANESE)                                  | 05443 | JAPANESE 1 (C)                                                                                         | Spring      | 1   | Wed.3       | 12/207         | ①            | ITO SEIKO                       |
|                                                 | 05883 | JAPANESE 1 (D)                                                                                         | Spring      | 1   | Wed.4       | 12/207         | ①            | ITO SEIKO                       |
|                                                 | 07044 | JAPANESE 2 (B)                                                                                         | Spring      | 1   | Wed.3       | 12/202B        | ①            | TAKEMURA KAZUKO                 |
|                                                 | 06029 | JAPANESE 3 (B)                                                                                         | Spring      | 1   | Wed.4       | 12/208         | ①            | AKISADA MIHO                    |
|                                                 | 05974 | JAPANESE 4 (B)                                                                                         | Spring      | 1   | Wed.3       | 12/208         | ①            | AKISADA MIHO                    |
|                                                 | 08442 | JAPANESE 1 (A)                                                                                         | Fall        | 1   | Wed.3       | 12/206         | ①            | MITEI                           |
|                                                 | 08184 | JAPANESE 3 (A)                                                                                         | Fall        | 1   | Wed.4       | 12/202C        | ①            | MITEI                           |
|                                                 | 08529 | JAPANESE 4 (A)                                                                                         | Fall        | 1   | Wed.3       | 12/202C        | ①            | MITEI                           |
|                                                 | 05697 | JAPANESE 1 (B)                                                                                         | Fall        | 1   | Wed.4       | 12/206         | ①            | MITEI                           |
|                                                 | 02702 | JAPANESE 1 (E)                                                                                         | Fall        | 1   | Wed.3       | 12/202A        | ①            | MITEI                           |
|                                                 | 01400 | JAPANESE 1 (F)                                                                                         | Fall        | 1   | Wed.4       | 12/202A        | ①            | MITEI                           |
|                                                 | 05898 | JAPANESE 2 (A)                                                                                         | Fall        | 1   | Wed.3       | 12/102         | ①            | MITEI                           |
| 基礎理工学専攻<br>(FUNDAMENTAL SCIENCE AND TECHNOLOGY) | 03785 | JAPANESE ELEMENTARY CONVERSATION                                                                       | Fall        | 1   | Wed.3       | 12/208         | ①            | MITEI                           |
|                                                 | 03020 | MATHEMATICAL ENGINEERING FOR QUANTUM MECHANICS                                                         | Fall        | 2   | Thu.4       | 14/202         | ①            | YAMAMOTO NAOIKI                 |
|                                                 | 01892 | ADVANCED COURSE ON SPIN AND NANO-SCALED SOLID STATE PHYSICS                                            | Spring Q2*1 | 2   | Mon.5/Thu.2 | 12/102         | ①            | KAJU HIDEO and the others       |
|                                                 | 05219 | INTELLIGENT MACHINE SYSTEM                                                                             | Fall Q3*1   | 2   | Mon.1/Mon.2 | 12/208         | ③            | MURAKAMI TOSHIYUKI              |
|                                                 | 10874 | NON-LINEAR DYNAMICS IN CHEMICAL SYSTEM                                                                 | Spring      | 2   | Tue.1       | 12/206         | ②            | ASAKURA KOICHI                  |
| 総合デザイン工学専攻<br>(INTEGRATED DESIGN ENGINEERING)   | 10563 | ADVANCED COURSE OF MOLECULAR DYNAMICS                                                                  | Fall        | 2   | Mon.5       | 12/209         | ②            | YASUOKA KENJI                   |
|                                                 | 05462 | ULTRAPRECISION MACHINING AND METROLOGY                                                                 | Fall        | 2   | Mon.2       | 12/103         | ①            | YAN JIANG                       |
|                                                 | 05477 | MEMS: DESIGN AND FABRICATION                                                                           | Spring      | 2   | Thu.2       | 12/105         | ①            | MIKI NORIHISA and the others    |
|                                                 | 04705 | MECHANICAL INTERFACE DESIGN                                                                            | Fall        | 2   | Thu.3       | 12/105         | ③            | MORITA TOSHIO                   |
|                                                 | 03053 | SPACE EXPLORATION ENGINEERING                                                                          | Fall        | 2   | Fri.2       | 14/201         | ①            | ISHIGAMI GENYA                  |
|                                                 | 04050 | BIOMIMETIC MICRO/NANO ENGINEERING                                                                      | Spring      | 2   | Mon.3       | 12/109         | ③            | ONOE, HIROAKI and the others    |
|                                                 | 12729 | INTELLIGENT MACHINE SYSTEM                                                                             | Fall Q3*1   | 2   | Mon.1/Mon.2 | 12/208         | ③            | MURAKAMI TOSHIYUKI              |
|                                                 | 05003 | DIGITAL SYNTHESIS OF FORMING PROCESSES                                                                 | Spring      | 2   | Mon.5       | 12/105,14/B101 | ①            | OYA TETSUO                      |
|                                                 | 09142 | ADVANCED CONTROL SYSTEMS DESIGN                                                                        | Spring      | 2   | Mon.2       | 12/105         | ①            | OHMORI HIROMITSU and the others |
|                                                 | 12551 | QUANTUM INTERNET AND QUANTUM INFORMATION THEORY                                                        | Fall        | 2   | Thu.2       | 12/208         | ①            | TAKEOKA MASAHIRO and the others |
|                                                 | 10415 | OPTICAL CONTROL OF QUANTUM SYSTEMS                                                                     | Spring      | 2   | Wed.2       | 14/204,14/B101 | ①            | SAIKI TOSHIHARU and the others  |
|                                                 | 00547 | DIGITAL WIRELESS COMMUNICATIONS                                                                        | Spring      | 2   | Mon.2       | 14/211         | ①            | SANADA YUKITOSHI                |
|                                                 | 12714 | PHOTONIC NANOSTRUCTURE                                                                                 | Fall        | 2   | Thu.3       | 12/106         | ①            | TANABE TAKASUMI                 |
|                                                 | 03068 | ADVANCED SIGNAL PROCESSING                                                                             | Spring      | 2   | Wed.1       | 12/106         | ①            | YUKAWA MASAHIRO                 |
|                                                 | 03072 | ADVANCED SYSTEM ELECTRONICS                                                                            | Fall        | 2   | Tue.2       | ONLINE         | ④            | KUBO RYOGO                      |
|                                                 | 09119 | LASER PROCESSING                                                                                       | Fall        | 2   | Mon.3       | 12/101         | ①            | TERAKAWA MITSUHIRO              |
|                                                 | 02459 | COGNITIVE ROBOTICS                                                                                     | Spring      | 2   | Fri.5       | 14/202         | ①            | MURATA SHINGO                   |
|                                                 | 01251 | NANODEVICE ENGINEERING                                                                                 | Spring      | 2   | Fri.3       | 12/101         | ①            | TANAKA TAKAHISA                 |
|                                                 | 02679 | ORGANIC ELECTRONIC MATERIALS AND DEVICES                                                               | Spring      | 2   | Fri.1       | 12/211         | ①            | NODA KEI                        |
|                                                 | 09085 | CHEMICAL SENSORS / BIOSENSORS AND SENSING MATERIALS                                                    | Spring      | 2   | Tue.2       | 12/206         | ①            | CITTERIO DANIEL                 |
|                                                 | 01888 | ADVANCED COURSE ON SPIN AND NANO-SCALED SOLID STATE PHYSICS                                            | Spring Q2*1 | 2   | Mon.5/Thu.2 | 12/102         | ①            | KAJU HIDEO and the other        |
|                                                 | 11574 | COMPUTER VISION                                                                                        | Spring      | 2   | Mon.5       | 14/202         | ①            | SAITO HIDEO                     |
|                                                 | 11995 | COMPUTER ARCHITECTURE                                                                                  | Spring      | 2   | Thu.1       | 12/203,14/203  | ①            | KONDO MASAOKI and the others    |
|                                                 | 11741 | INTRODUCTION TO COMPUTATIONAL SOLID MECHANICS                                                          | Spring      | 2   | Tue.2       | 12/103         | ①            | ISAKARI HIROSHI                 |
|                                                 | 10578 | NON-LINEAR DYNAMICS IN CHEMICAL SYSTEM                                                                 | Spring      | 2   | Tue.1       | 12/206         | ①            | ASAKURA KOICHI                  |
|                                                 | 00987 | ADVANCED FLUID MECHANICS                                                                               | Fall        | 2   | Fri.4       | 12/209         | ①            | OBI SHINNOSUKE and the others   |
|                                                 | 13099 | PHYSICS OF LIVING MATTER                                                                               | Spring      | 2   | Fri.1       | 12/209         | ①            | DATT CHARU                      |

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|----------------------------------------------------------|-------|----------------------------------------------------------|--------------------------------|-----|-------------|---------------|--------------|---------------------------------|
| 開放環境科学専攻<br>(SCIENCE FOR OPEN AND ENVIRONMENTAL SYSTEMS) | 03819 | ENVIRONMENTAL INFORMATION SYSTEM ARCHITECTURE            | Fall                           | 2   | Tue.3       | -             | ②            | YASUOKA KENJI and the others    |
|                                                          | 04136 | ENVIRONMENTAL TECHNOSCIENCE AND POLICY                   | Spring                         | 2   | Mon.4       | -             | ②            | YASUOKA KENJI and the others    |
|                                                          | 11737 | INTRODUCTION TO COMPUTATIONAL SOLID MECHANICS            | Spring                         | 2   | Tue.2       | 12/103        | ①            | ISAKARI HIROSHI                 |
|                                                          | 12862 | PUBLIC SPACE AND COMMUNICATION                           | Fall                           | 2   | Mon.4       | 12/106        | ①            | INOUE KYOKO                     |
|                                                          | 03182 | ANALYSIS OF ARCHITECTURAL FORM                           | Fall                           | 2   | Fri.5       | 34/321        | ①            | ALMAZAN CABALLERO JORGE         |
|                                                          | 03087 | NON-LINEAR DYNAMICS IN CHEMICAL SYSTEM                   | Spring                         | 2   | Tue.1       | 12/206        | ①            | ASAKURA KOICHI                  |
|                                                          | 10802 | COMPRESSIBLE FLUID DYNAMICS                              | Spring<br>(Every other week*3) | 2   | Mon.2/Wed.1 | 12/102        | ①            | MATSUO AKIKO                    |
|                                                          | 11081 | FINITE ELEMENT MODELING AND SIMULATION                   | Fall                           | 2   | Tue.1       | 12/206        | ②            | MURAMATSU MAYU                  |
|                                                          | 10563 | ADVANCED COURSE OF MOLECULAR DYNAMICS                    | Fall                           | 2   | Mon.5       | 12/209        | ②            | YASUOKA KENJI                   |
|                                                          | 05515 | FUNDAMENTALS OF TURBULENCE AND ITS THEORY                | Spring                         | 2   | Fri.2       | 12/206        | ③            | FUKAGATA KOJI                   |
|                                                          | 04739 | ADVANCED ACTUATOR ENGINEERING                            | Fall                           | 2   | Tue.2       | 12/202A       | ③            | TAKEMURA KENJIRO                |
|                                                          | 03842 | ADVANCED COURSE IN APPLIED AND COMPUTATIONAL MECHANICS 2 | Fall                           | 2   | Mon.1       | 14/204        | ②            | ANDO KEITA and the others       |
|                                                          | 03599 | FUNDAMENTALS OF MULTIPHASE FLOW                          | Spring                         | 2   | Tue.3       | 11/21         | ②            | ANDO KEITA                      |
|                                                          | 02042 | MECHANICS AND NUMERICAL SIMULATION OF ADVANCED MATERIALS | Spring                         | 2   | Tue.2       | 11/21         | ①            | TAKANO NAOKI                    |
|                                                          | 01471 | NONLINEAR DYNAMICS                                       | Fall                           | 2   | Thu.5       | 12/206        | ②            | PENG LINYU                      |
|                                                          | 01319 | ADVANCED FLUID MECHANICS                                 | Fall                           | 2   | Fri.4       | 12/209        | ①            | OBI SHINNOSUKE and the others   |
|                                                          | 13103 | PHYSICS OF LIVING MATTER                                 | Spring                         | 2   | Fri.1       | 12/209        | ①            | DATT CHARU                      |
|                                                          | 01543 | QUANTUM INTERNET AND QUANTUM INFORMATION THEORY          | Fall                           | 2   | Thu.2       | 12/208        | ①            | TAKEOKA MASAHIRO and the others |
|                                                          | 12088 | FORMAL PROGRAMMING LANGUAGE THEORY                       | Fall                           | 2   | Thu.4       | 14/B102       | ①            | TAKIMOTO MUNEHIRO               |
|                                                          | 12054 | ADVANCED COURSE ON NATURAL LANGUAGE PROCESSING           | Fall                           | 2   | Wed.2       | 12/108        | ①            | OHARA KYOKO and the others      |
|                                                          | 11608 | TOPICS IN COMPUTER OPERATING SYSTEMS                     | Spring                         | 2   | Tue.3       | 12/108        | ①            | KONO KENJI                      |
|                                                          | 00107 | COMPUTER VISION                                          | Spring                         | 2   | Mon.5       | 14/202        | ①            | SAITO HIDEO                     |
|                                                          | 12016 | REAL WORLD INTERACTIVE SYSTEM                            | Fall                           | 2   | Tue.2       | 14/204        | ①            | SUGIURA YUTA                    |
|                                                          | 12001 | COMPUTER ARCHITECTURE                                    | Spring                         | 2   | Thu.1       | 12/203,14/203 | ①            | KONDO MASAOKI and the others    |
|                                                          | 11612 | DISTRIBUTED SYSTEMS                                      | Fall                           | 2   | Fri.5       | 12/103        | ①            | MATSUTANI HIROKI                |
|                                                          | 06344 | DESIGN OF PHYSICALLY GROUNDED COMMUNICATION SYSTEM       | Spring                         | 2   | Fri.2       | 12/101        | ①            | IMAI MICHITA                    |
|                                                          | 05276 | MICROPROCESSOR ARCHITECTURE                              | Fall                           | 2   | Thu.3       | 12/103        | ①            | YAMASAKI NOBUYUKI               |
|                                                          | 05993 | ADVANCED COURSE OF INTERNET BACKBONE ARCHITECTURE        | Spring                         | 2   | Mon.2       | 14/204        | ①            | YAMANAKA NAOAKI                 |
|                                                          | 05630 | AD HOC AND SENSOR NETWORK                                | Fall                           | 2   | Mon.3       | 14/201        | ①            | OTSUKI TOMOAKI                  |
|                                                          | 05132 | ADVANCED COURSE ON COMPUTER VISUALIZATION                | Spring                         | 2   | Thu.4       | 14/201        | ①            | FUJISHIRO ISSEI                 |
|                                                          | 03618 | ADVANCED COURSE ON NETWORK SERVICES                      | Fall                           | 2   | Fri.2       | 12/105        | ①            | KANEKO KUNITAKE                 |
|                                                          | 03876 | MIXED REALITY                                            | Spring                         | 2   | Mon.3       | 12/211        | ①            | SUGIMOTO MAKI                   |
|                                                          | 09305 | MODELS FOR CONCURRENCY                                   | Spring(Intensive)              | 2   | *5          | 14/201        | ①            | YOSHIDA NOBUKO                  |
|                                                          | 02870 | SOFTWARE ENGINEERING: DEVELOPMENT AND TESTING            | Spring                         | 2   | Tue.5       | 12/101,12/102 | ①            | TAKADA SHINGO                   |
|                                                          | 00934 | MACHINE INTELLIGENCE                                     | Spring                         | 2   | Fri.4       | 11/21         | ①            | SUGIURA KOMEI                   |
|                                                          | 01323 | MEDIA COMPUTING                                          | Fall                           | 2   | Tue.3       | 14/204        | ①            | ISOGAWA MARIKO                  |
|                                                          | 01338 | ADVANCED VLSI DESIGN EXERCISES                           | Spring                         | 2   | Thu.3       | 14/B103       | ①            | MATSUTANI HIROKI                |
|                                                          | 13118 | COMPUTATIONAL FABRICATION                                | Spring                         | 2   | Fri.3       | 14/201        | ①            | NARUMI KOYA                     |
|                                                          | 13122 | SPEECH AND AUDIO PROCESSING                              | Fall                           | 2   | Fri.3       | 14/204        | ①            | TAKAMICHI SHINNOSUKE            |
|                                                          | 12365 | HUMAN-AGENT INTERACTION                                  | Spring                         | 2   | Tue.4       | 12/108        | ①            | OSAWA HIROTAKA                  |
|                                                          | 12403 | APPLIED STATISTICAL ANALYSIS                             | Fall                           | 2   | Mon.2       | 12/209        | ①            | SUZUKI HIDEO                    |
|                                                          | 11722 | ADVANCED TOPICS IN BUSINESS ECONOMICS 2                  | Fall                           | 2   | Fri.4       | 12/104        | ①            | BANDO KEISUKE                   |
|                                                          | 03489 | ADVANCED FINANCIAL ENGINEERING 1                         | Spring                         | 2   | Tue.3       | 12/207        | ①            | IMAI JUNICHI                    |
|                                                          | 05147 | OPERATIONS MANAGEMENT                                    | Spring                         | 2   | Mon.2       | 12/108        | ③            | MATSUKAWA HIROAKI               |
|                                                          | 05151 | OPEN SYSTEMS MANAGEMENT: LECTURE AND LABORATORIES        | Fall<br>(Every other week*6)   | 2   | Thu.4/Thu.5 | 14/211        | ①            | YAMADA SHU and the others       |
|                                                          | 09286 | ADVANCED COURSE ON APPLICATION OF EXPERIMENTAL DESIGN    | Spring                         | 2   | Fri.3       | 12/207        | ①            | YAMADA SHU                      |

\*1 Most courses are taught on a semester system, but the courses marked "Q1" "Q2" "Q3" or "Q4" are conducted on a quarter system which divides a semester into two halves.

Spring Q1courses: April to May

Spring Q2 courses: End of May to July

Fall Q3 courses: September to mid-November

Fall Q4: Mid-November to January

Please confirm "Course Guidebook" for Academic Year class schedule.

\*3 "COMPRESSIBLE FLUID DYNAMICS": Lecture days are as follows: Apr.9,14,16,21,28,30 May.7,12,14,26, Jun.2,4,9,11

\*5 "MODELS FOR CONCURRENCY": This is an intensive course. Lecture days are as follows: Aug.4(1-5period), Aug.5(1-5period), Aug.6(1-4period)

\*6 "OPEN SYSTEMS MANAGEMENT:LECTURE AND LABORATORIES" : Lecture days are as follows: Oct.16,30, Nov.13,27, Dec.11,18, Jan.8

## [Type of Classes]

① : Face to Face Classes ( conducted mainly in-person )

② : Online Classes ( mainly real-time format )

③ : Online Classes ( mainly on-demand format )

④ : Online Classes ( completely on-demand format )

For more information, please attend the first class and check with the instructor.