

## Fundamental Subjects

| Semester | Course Key | Course Title                                       | Language | Instructor           | Day | Period | Credit |
|----------|------------|----------------------------------------------------|----------|----------------------|-----|--------|--------|
| Spring   | 440110440F | Basic of AD/DA Converters                          | E・J      | KATAYAMA, Kousuke    | Tue | 1      | 2      |
|          | 440110060F | Systems Engineering                                | J        | OGAI, Harutoshi      | Tue | 3      | 2      |
|          | 440111420F | Power Electronics                                  | E・J      | INUISHI, Masahide    | Tue | 5      | 2      |
|          | 440111430F | Optical Engineering                                | E・J      | SHIMIZU, Koichi      | Wed | 1      | 2      |
|          | 440110320F | Data Structures and Algorithms                     | E・J      | IWAHARA, Mizuho      | Wed | 2      | 2      |
|          | 440110260F | Analog CMOS Circuits                               | J        | YOSHIMASU, Toshihiko | Wed | 3      | 2      |
|          | 440110020F | Information Networks                               | E        | KOYANAGI, Keiichi    | Wed | 3      | 2      |
|          | 440111440F | Kinematics of Machinery                            | E・J      | TANAKA, Eiichiro     | Wed | 5      | 2      |
|          | 440110490F | Basic of Antenna                                   | E・J      | KATAYAMA, Kousuke    | Thu | 1      | 2      |
|          | 440110160F | Operations Research                                | E        | MURATA, Tomohiro     | Thu | 2      | 2      |
|          | 440111460F | Theory of Constraint Processing                    | E        | YOSHIE, Osamu        | Thu | 4      | 2      |
|          | 440110470F | Linear Algebra                                     | E・J      | SUGIMOTO, Kenjiro    | Fri | 2      | 2      |
|          | 440110410F | Introduction to Engineering Experimentation_Spring | J        | IIZUKA, Tomonori     | Fri | 2      | 2      |
|          | 440111490F | Solid State Physics                                | E・J      | KAKITSUKA, Takaaki   | Fri | 2      | 2      |
|          | 440110050F | Control Engineering                                | E・J      | LEE, HeeHyol         | Fri | 3      | 2      |
|          | 440110070F | Spectrum Analysis                                  | E・J      | INUJIMA, Hiroshi     | Sat | 1      | 2      |
| Fall     | 440110460F | Basic of Radio Propagation                         | E・J      | KATAYAMA, Kousuke    | Tue | 1      | 2      |
|          | 440110360F | Introduction to System LSI                         | E・J      | SHINOHARA, Hirofumi  | Tue | 2      | 2      |
|          | 440110210F | Computer Architecture                              | E・J      | WATANABE, Takahiro   | Tue | 3      | 2      |
|          | 440111450F | Quantum Electrodynamics                            | E        | TAKAHATA, Kiyoto     | Tue | 5      | 2      |
|          | 440110400F | Computational Intelligence                         | E・J      | FURUZUKI, Takayuki   | Tue | 5      | 2      |
|          | 440111470F | Business Process Modeling                          | E        | FUJIMURA, Shigeru    | Tue | 6      | 2      |
|          | 440111370F | Robotics                                           | E・J      | MATSUMARU, Takafumi  | Wed | 1      | 2      |
|          | 440111360F | Optical fiber engineering                          | E・J      | TSUBOKAWA, Makoto    | Wed | 3      | 2      |
|          | 440110350F | Energy Engineering                                 | J        | TATSUMI, Kohei       | Wed | 3      | 2      |
|          | 440110340F | Background and basics in distributional semantics  | E        | LEPAGE, Yves         | Wed | 4      | 2      |
|          | 440110220F | Digital Circuits                                   | E・J      | KIMURA, Shinji       | Wed | 5      | 2      |
|          | 440111480F | Basics of Measurement Engineering                  | E・J      | IKEHASHI, Tamio      | Wed | 6      | 2      |
|          | 440111410F | Surface Science                                    | E・J      | MIYAKE, Takeo        | Thu | 1      | 2      |
|          | 440111400F | Information System Design                          | E        | TANAKA, Jiro         | Thu | 3      | 2      |
|          | 440110430F | Semiconductor Device Technology                    | E・J      | OHSAWA, Takashi      | Thu | 5      | 2      |
|          | 440110180F | Simulation Techniques                              | J        | TATENO, Shigeyuki    | Thu | 6      | 2      |
|          | 440110480F | Probability and Statistics                         | E・J      | SUGIMOTO, Kenjiro    | Fri | 2      | 2      |
|          | 440110500F | Introduction to Engineering Experimentation_Fall   | E・J      | IIZUKA, Tomonori     | Fri | 2      | 2      |
|          | 440110420F | Advanced Engineering Experimentation               | E・J      | IIZUKA, Tomonori     | Fri | 3      | 2      |
|          | 440111390F | Programming Basics                                 | E        | SUGIMOTO, Kenjiro    | Fri | 4      | 2      |

## Advanced Subjects

## &lt;Information Architecture&gt;

| Semester | Course Key | Course Title                                       | Language | Instructor          | Day | Period | Credit |
|----------|------------|----------------------------------------------------|----------|---------------------|-----|--------|--------|
| Spring   | 440111250A | Natural language processing (NLP)                  | E        | LEPAGE, Yves        | Tue | 1      | 2      |
|          | 440111320A | Human-Robot Interaction                            | E・J      | MATSUMARU, Takafumi | Tue | 2      | 2      |
|          | 440111260A | Machine translation technology                     | E        | LEPAGE, Yves        | Tue | 3      | 2      |
|          | 440111380A | Industrial Marketing (Spring Quarter)              | J        | FUJIMURA, Shigeru   | Tue | 4      | 1      |
|          | 440111390A | Theory of collective intelligence (Summer Quarter) | E        | YOSHIE, Osamu       | Tue | 4      | 1      |
|          | 440111020A | Scheduling Algorithms                              | E・J      | FUJIMURA, Shigeru   | Tue | 6      | 2      |
|          | 440111230A | Database                                           | E        | IWAIHARA, Mizuho    | Wed | 4      | 2      |
|          | 440111310A | Optical transmission technologies                  | E・J      | TSUBOKAWA, Makoto   | Thu | 2      | 2      |
|          | 440111350A | Human Interface                                    | E・J      | TANAKA, Jiro        | Thu | 5      | 2      |
|          | 440111010A | Image Processing                                   | E・J      | KAMATA, Seiichiro   | Fri | 3      | 2      |
|          | 440111040A | Neural Networks                                    | E・J      | FURUZUKI, Takayuki  | Fri | 4      | 2      |
|          | 440111370A | Convex Analysis                                    | E・J      | SUGIMOTO, Kenjiro   | Fri | 5      | 2      |
|          | 440111980A | Technical Presentation Special Exercise_Spring     | J        | SUGIMOTO, Kenjiro   | Sat | 2      | 2*     |
| Fall     | 440111270A | Bioengineering                                     | E・J      | MATSUMARU, Takafumi | Tue | 1      | 2      |
|          | 440111360A | Programming Languages and Methodology              | E        | TANAKA, Jiro        | Tue | 3      | 2      |
|          | 440111300A | Bioinformatics                                     | E・J      | FURUZUKI, Takayuki  | Tue | 4      | 2      |
|          | 440111240A | Information Organization                           | E        | IWAIHARA, Mizuho    | Wed | 2      | 2      |
|          | 440111150A | Distributed System                                 | E        | KOYANAGI, Keiichi   | Wed | 5      | 2      |
|          | 440111140A | Theory on Object Oriented Design                   | E        | KOYANAGI, Keiichi   | Wed | 6      | 2      |
|          | 440111280A | Fiber optic measurement technology                 | E・J      | TSUBOKAWA, Makoto   | Thu | 2      | 2      |
|          | 440111400A | Smart factory I (Fall Quarter)                     | E        | YOSHIE, Osamu       | Thu | 4      | 1      |
|          | 440111410A | Smart factory II (Winter Quarter)                  | E        | FUJIMURA, Shigeru   | Thu | 4      | 1      |
|          | 440111110A | Pattern Recognition                                | E・J      | KAMATA, Seiichiro   | Fri | 3      | 2      |
|          | 440111220A | Information Security Engineering                   | E・J      | KAMATA, Seiichiro   | Fri | 5      | 2      |
|          | 440111990A | Technical Presentation Special Exercise_Fall       | E        | SUGIMOTO, Kenjiro   | Sat | 2      | 2*     |

\*The credits are not included in the required credits for graduation and laboratory assignment.

## &lt;Production Systems&gt;

| Semester | Course Key | Course Title                                             | Language | Instructor        | Day | Period | Credit |
|----------|------------|----------------------------------------------------------|----------|-------------------|-----|--------|--------|
| Spring   | 440112190A | Automobile Engineering                                   | J        | LEE, HeeHyol etc. | Mon | 4      | 2      |
|          | 440112290A | Bioelectronics                                           | E・J      | MIYAKE, Takeo     | Tue | 2      | 2      |
|          | 440112330A | Wave Optics                                              | E・J      | SHIMIZU, Koichi   | Wed | 4      | 2      |
|          | 440112230A | Semiconductor Interconnection Materials and Technologies | J        | TATSUMI, Kohei    | Thu | 2      | 2      |
|          | 440112360A | Dynamics of Machinery                                    | E・J      | TANAKA, Eiichiro  | Thu | 3      | 2      |
|          | 440112070A | Reliability Engineering                                  | E・J      | TATENO, Shigeyuki | Thu | 6      | 2      |
|          | 440112120A | Optimal Control Theory                                   | E・J      | LEE, HeeHyol      | Fri | 2      | 2      |
|          | 440112370A | Dielectric Insulator Materials                           | E・J      | IIZUKA, Tomonori  | Fri | 3      | 2      |
|          | 440112700E | Engineering Experimentation Special Exercise             | E・J      | IIZUKA, Tomonori  | Fri | 4      | 2*     |
|          | 440112080A | Automobile and Plant Control Modeling                    | E・J      | OGAI, Harutoshi   | Fri | 5      | 2      |
|          | 440112300A | Biomicro-machine                                         | E・J      | MIYAKE, Takeo     | Tue | 1      | 2      |
|          | 440112170A | Information Management                                   | J        | OGAI, Harutoshi   | Tue | 6      | 2      |
|          | 440112320A | Process Technology for Power Devices and Reliability     | E・J      | INUISHI, Masahide | Wed | 1      | 2      |
|          | 440112350A | Design of Machine Elements                               | E・J      | TANAKA, Eiichiro  | Wed | 3      | 2      |
|          | 440112340A | Applied Optics                                           | E・J      | SHIMIZU, Koichi   | Wed | 4      | 2      |
|          | 440112100A | Supply Chain Management                                  | E        | MURATA, Tomohiro  | Thu | 2      | 2      |
|          | 440112150A | Process Control                                          | E・J      | OGAI, Harutoshi   | Thu | 3      | 2      |
|          | 440112310A | Power Semiconductor Devices                              | E・J      | INUISHI, Masahide | Thu | 5      | 2      |
|          | 440112030A | Linear Systems Theory                                    | E・J      | LEE, HeeHyol      | Fri | 2      | 2      |
|          | 440112720E | Dielectric Insulator Materials Special Exercise          | E・J      | IIZUKA, Tomonori  | Fri | 4      | 2*     |
|          | 440112140A | Machine Diagnosis Techniques                             | J        | INUJIMA, Hiroshi  | Sat | 1      | 2      |

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## &lt;Integrated Systems&gt;

| Semester | Course Key | Course Title                                 | Language | Instructor           | Day | Period | Credit |
|----------|------------|----------------------------------------------|----------|----------------------|-----|--------|--------|
| Spring   | 440113280A | Microprocessor                               | E・J      | IKENAGA, Takeshi     | Tue | 2      | 2      |
|          | 440113380A | Semiconductor Memory Design                  | E・J      | OHSAWA, Takashi      | Tue | 3      | 2      |
|          | 440113060A | Transmission Circuits                        | J        | YOSHIMASU, Toshihiko | Tue | 4      | 2      |
|          | 440113080A | System LSI Architecture                      | E・J      | KIMURA, Shinji       | Tue | 5      | 2      |
|          | 440113330A | Energy-Efficient LSI Systems                 | E・J      | SHINOHARA, Hirofumi  | Wed | 2      | 2      |
|          | 440113120A | Digital LSI Architecture                     | E・J      | WATANABE, Takahiro   | Wed | 4      | 2      |
|          | 440113410A | MEMS Device Engineering                      | E・J      | IKEHASHI, Tamio      | Wed | 5      | 2      |
|          | 440113370A | Opto-electronic Integrated Circuits          | E        | TAKAHATA, Kiyoto     | Thu | 3      | 2      |
|          | 440113430A | Laser Engineering                            | E・J      | KAKITSUKA, Takaaki   | Thu | 4      | 2      |
|          | 440113980A | Microwave Planer Circuits Special Exercise   | E・J      | KATAYAMA, Kousuke    | Fri | 3      | 2*     |
| Fall     | 440113260A | High-speed, High-frequency LSI Design        | E        | YOSHIMASU, Toshihiko | Tue | 4      | 2      |
|          | 440113390A | Emerging Memories                            | E・J      | OHSAWA, Takashi      | Tue | 6      | 2      |
|          | 440113090A | System LSI Design                            | E        | IKENAGA, Takeshi     | Wed | 2      | 2      |
|          | 440113310A | Video Signal Processing                      | E・J      | IKENAGA, Takeshi     | Wed | 3      | 2      |
|          | 440113100A | Low Power LSI Design                         | E・J      | WATANABE, Takahiro   | Wed | 4      | 2      |
|          | 440113400A | Analog and Digital Modulations               | E・J      | KATAYAMA, Kousuke    | Thu | 1      | 2      |
|          | 440113140A | Design for Testability                       | E・J      | KIMURA, Shinji       | Thu | 2      | 2      |
|          | 440113340A | Dependable LSI Systems                       | E・J      | SHINOHARA, Hirofumi  | Thu | 3      | 2      |
|          | 440113360A | Optical Semiconductor Devices                | E・J      | TAKAHATA, Kiyoto     | Thu | 4      | 2      |
|          | 440113440A | Optical Circuit Simulation Technology        | E        | KAKITSUKA, Takaaki   | Fri | 2      | 2      |
|          | 440113420A | Analog LSI Design                            | E・J      | IKEHASHI, Tamio      | Fri | 3      | 2      |
|          | 440113990A | Microwave System Simulation Special Exercise | E・J      | KATAYAMA, Kousuke    | Fri | 5      | 2*     |

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## &lt;Common Field&gt;

|        |            |                                                        |     |                |           |   |
|--------|------------|--------------------------------------------------------|-----|----------------|-----------|---|
| Spring | 440115020A | Predictive Maintenance and IoT Application_Spring      | J   | SAKO, Takashi  | Intensive | 1 |
|        | 440115030A | Operations Management as a Strategic View Point_Spring | J   | FUJINO, Naoaki | Intensive | 1 |
| Fall   | 440115060A | Predictive Maintenance and IoT Application_Fall        | E・J | SAKO, Takashi  | Intensive | 1 |
|        | 440115070A | Operations Management as a Strategic View Point_Fall   | E   | FUJINO, Naoaki | Intensive | 1 |

## Laboratory Works

## &lt;Information Architecture&gt;

| Semester | Course Key | Course Title                                 | Language | Instructor    | Day | Period | Credit |
|----------|------------|----------------------------------------------|----------|---------------|-----|--------|--------|
| Fall     | 440111010L | Laboratory Works on Information Architecture | J        | YOSHIE, Osamu | Thu | 5,6    | 2      |

## &lt;Production Systems&gt;

| Semester | Course Key | Course Title                           | Language | Instructor                                                       | Day | Period | Credit |
|----------|------------|----------------------------------------|----------|------------------------------------------------------------------|-----|--------|--------|
| Fall     | 440112010L | Laboratory Works on Production Systems | J        | LEE, INUJIMA, MURATA<br>TATSUMI, TATENO,<br>OGAI, MIYAKE, TANAKA | Tue | 3,4    | 2      |

## Specialized Subjects

## &lt;Information Architecture&gt;

| Semester | Course Key | Course Title                          | Language | Instructor          | Day | Period | Credit |
|----------|------------|---------------------------------------|----------|---------------------|-----|--------|--------|
| Fall     | 440111170S | Robotics and mechatronics             | E・J      | MATSUMARU, Takafumi | Mon | 1      | 2      |
|          | 440111020S | Smart Industry                        | E・J      | FUJIMURA, Shigeru   | Tue | 1      | 2      |
|          | 440111070S | Community Computing                   | E・J      | YOSHIE, Osamu       | Tue | 1      | 2      |
|          | 440111140S | Data Engineering                      | E        | IWAIHARA, Mizuho    | Tue | 3      | 2      |
|          | 440111060S | Network Community                     | E・J      | KOYANAGI, Keiichi   | Tue | 6      | 2      |
|          | 440111050S | Computational Neuroscience            | E・J      | FURUZUKI, Takayuki  | Wed | 3      | 2      |
|          | 440111090S | Multimedia Engineering                | E・J      | KAMATA, Seiichiro   | Wed | 5      | 2      |
|          | 440111150S | Example-based machine translation/NLP | E        | LEPAGE, Yves        | Thu | 1      | 2      |
|          | 440111180S | Interactive Programming               | E        | TANAKA, Jiro        | Thu | 5      | 2      |
|          | 440111160S | Advanced fiber optic technologies     | E・J      | TSUBOKAWA, Makoto   | Fri | 3      | 2      |

## &lt;Production Systems&gt;

| Semester | Course Key | Course Title                       | Language | Instructor        | Day | Period | Credit |
|----------|------------|------------------------------------|----------|-------------------|-----|--------|--------|
| Fall     | 440112150S | Current Bioelectronics             | E・J      | MIYAKE, Takeo     | Wed | 1      | 2      |
|          | 440112170S | Advanced Biomedical Optics         | E・J      | SHIMIZU, Koichi   | Wed | 2      | 2      |
|          | 440112160S | Power Semiconductor Devices        | E・J      | INUISHI, Masahide | Wed | 4      | 2      |
|          | 440112180S | Mechanical System Design           | E・J      | TANAKA, Eiichiro  | Wed | 4      | 2      |
|          | 440112140S | Advanced Materials                 | E・J      | TATSUMI, Kohei    | Wed | 5      | 2      |
|          | 440112110S | Machine Diagnosis                  | E・J      | INUJIMA, Hiroshi  | Thu | 2      | 2      |
|          | 440112070S | Advanced Production Systems        | E        | MURATA, Tomohiro  | Thu | 3      | 2      |
|          | 440112060S | Information and Production Process | E・J      | TATENO, Shigeyuki | Thu | 4      | 2      |
|          | 440112050S | Control and Information            | E・J      | OGAI, Harutoshi   | Fri | 1      | 2      |
|          | 440112030S | Systems Control                    | E・J      | LEE, HeeHyol      | Fri | 3      | 2      |

## &lt;Integrated Systems&gt;

| Semester | Course Key | Course Title                                 | Language | Instructor           | Day | Period | Credit |
|----------|------------|----------------------------------------------|----------|----------------------|-----|--------|--------|
| Fall     | 440113020S | Image Information Systems                    | E・J      | IKENAGA, Takeshi     | Tue | 3      | 2      |
|          | 440113110S | Dependable Information Systems               | E・J      | SHINOHARA, Hirofumi  | Wed | 1      | 2      |
|          | 440113090S | ASIC Design Automation                       | E・J      | WATANABE, Takahiro   | Wed | 2      | 2      |
|          | 440113150S | Light Emitting Systems                       | E・J      | KAKITSUKA, Takaaki   | Wed | 2      | 2      |
|          | 440113080S | Wireless Communication Circuits Technologies | E・J      | YOSHIMASU, Toshihiko | Wed | 3      | 2      |
|          | 440113100S | High-Level Verification Technologies         | E・J      | KIMURA, Shinji       | Wed | 3      | 2      |
|          | 440113120S | Opto-electronic Integrated Systems           | E・J      | TAKAHATA, Kiyoto     | Wed | 4      | 2      |
|          | 440113130S | Emerging Memory System                       | E・J      | OHSAWA, Takashi      | Fri | 4      | 2      |
|          | 440113140S | Micro Electro-Mechanical Systems             | E・J      | IKEHASHI, Tamio      | Fri | 4      | 2      |

\*The syllabuses of Specialized subjects and Exercises are available on "Web Syllabus" or Course Registration page.  
 Web Syllabus: <https://www.wsl.waseda.jp/syllabus/JAA101.php?pLng=en>

## Exercises

&lt;Information Architecture&gt;

| Semester | Course Key | Course Title                            | Language | Instructor          | Day | Period | Credit |
|----------|------------|-----------------------------------------|----------|---------------------|-----|--------|--------|
| Spring   | 440111460E | Smart Industry B                        | E・J      | FUJIMURA, Shigeru   | Tue | 1,2    | 4      |
|          | 440111470E | Smart Industry C                        | E・J      | FUJIMURA, Shigeru   | Tue | 3      | 2      |
| Fall     | 440111450E | Smart Industry A                        | E・J      | FUJIMURA, Shigeru   | Tue | 2      | 2      |
|          | 440111480E | Smart Industry D                        | E・J      | FUJIMURA, Shigeru   | Tue | 3      | 2      |
| Spring   | 440111380E | Neurocomputing Systems B                | E・J      | FURUZUKI, Takayuki  | Wed | 3,4    | 4      |
|          | 440111390E | Neurocomputing Systems C                | E・J      | FURUZUKI, Takayuki  | Wed | 5      | 2      |
| Fall     | 440111370E | Neurocomputing Systems A                | E・J      | FURUZUKI, Takayuki  | Wed | 4      | 2      |
|          | 440111400E | Neurocomputing Systems D                | E・J      | FURUZUKI, Takayuki  | Wed | 5      | 2      |
| Spring   | 440111500E | Database System B                       | E・J      | IWAHARA, Mizuho     | Tue | 3,4    | 4      |
|          | 440111510E | Database System C                       | E・J      | IWAHARA, Mizuho     | Tue | 5      | 2      |
| Fall     | 440111490E | Database System A                       | E・J      | IWAHARA, Mizuho     | Thu | 3      | 2      |
|          | 440111520E | Database System D                       | E・J      | IWAHARA, Mizuho     | Thu | 4      | 2      |
| Spring   | 440111060E | Image Media B                           | E・J      | KAMATA, Seiichiro   | Sat | 3,4    | 4      |
|          | 440111070E | Image Media C                           | E・J      | KAMATA, Seiichiro   | Tue | 3      | 2      |
| Fall     | 440111050E | Image Media A                           | E・J      | KAMATA, Seiichiro   | Sat | 3      | 2      |
|          | 440111080E | Image Media D                           | E・J      | KAMATA, Seiichiro   | Tue | 3      | 2      |
| Spring   | 440111220E | Thinking Networks B                     | E・J      | KOYANAGI, Keiichi   | Tue | 4,5    | 4      |
|          | 440111230E | Thinking Networks C                     | E・J      | KOYANAGI, Keiichi   | Tue | 6      | 2      |
| Fall     | 440111210E | Thinking Networks A                     | E・J      | KOYANAGI, Keiichi   | Tue | 5      | 2      |
|          | 440111240E | Thinking Networks D                     | E・J      | KOYANAGI, Keiichi   | Tue | 4      | 2      |
| Spring   | 440111560E | Example-based machine translation/NLP B | E・J      | LEPAGE, Yves        | Wed | 1,2    | 4      |
|          | 440111550E | Example-based machine translation/NLP C | E・J      | LEPAGE, Yves        | Wed | 3      | 2      |
| Fall     | 440111530E | Example-based machine translation/NLP A | E・J      | LEPAGE, Yves        | Wed | 3      | 2      |
|          | 440111540E | Example-based machine translation/NLP D | E・J      | LEPAGE, Yves        | Thu | 3      | 2      |
| Spring   | 440111620E | Robotics and mechatronics B             | E・J      | MATSUMARU, Takafumi | Thu | 1,2    | 4      |
|          | 440111630E | Robotics and mechatronics C             | E・J      | MATSUMARU, Takafumi | Mon | 1      | 2      |
| Fall     | 440111640E | Robotics and mechatronics A             | E・J      | MATSUMARU, Takafumi | Thu | 1      | 2      |
|          | 440111610E | Robotics and mechatronics D             | E・J      | MATSUMARU, Takafumi | Thu | 2      | 2      |
| Spring   | 440111680E | Interactive Programming B               | E・J      | TANAKA, Jiro        | Tue | 4,5    | 4      |
|          | 440111690E | Interactive Programming C               | E        | TANAKA, Jiro        | Thu | 2      | 2      |
| Fall     | 440111700E | Interactive Programming A               | E        | TANAKA, Jiro        | Tue | 5      | 2      |
|          | 440111710E | Interactive Programming D               | E・J      | TANAKA, Jiro        | Thu | 4      | 2      |
| Spring   | 440111570E | Fiber-optic systems B                   | E・J      | TSUBOKAWA, Makoto   | Fri | 3,4    | 4      |
|          | 440111580E | Fiber-optic systems C                   | E・J      | TSUBOKAWA, Makoto   | Fri | 2      | 2      |
| Fall     | 440111590E | Fiber-optic systems A                   | E・J      | TSUBOKAWA, Makoto   | Fri | 4      | 2      |
|          | 440111600E | Fiber-optic systems D                   | E・J      | TSUBOKAWA, Makoto   | Fri | 5      | 2      |
| Spring   | 440111260E | Community Computing B                   | E・J      | YOSHIE, Osamu       | Tue | 1,2    | 4      |
|          | 440111270E | Community Computing C                   | E・J      | YOSHIE, Osamu       | Tue | 5      | 2      |
| Fall     | 440111250E | Community Computing A                   | E・J      | YOSHIE, Osamu       | Tue | 2      | 2      |
|          | 440111280E | Community Computing D                   | E・J      | YOSHIE, Osamu       | Tue | 3      | 2      |

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## &lt;Production Systems&gt;

| Semester | Course Key | Course Title                        | Language | Instructor        | Day | Period | Credit |
|----------|------------|-------------------------------------|----------|-------------------|-----|--------|--------|
| Spring   | 440112580E | Power Semiconductor Devices B       | E・J      | INUISHI, Masahide | Wed | 4,5    | 4      |
|          | 440112590E | Power Semiconductor Devices C       | E・J      | INUISHI, Masahide | Thu | 5      | 2      |
| Fall     | 440112600E | Power Semiconductor Devices A       | E・J      | INUISHI, Masahide | Tue | 1      | 2      |
|          | 440112610E | Power Semiconductor Devices D       | E・J      | INUISHI, Masahide | Tue | 5      | 2      |
| Spring   | 440112340E | Machine Diagnosis Techniques B      | E・J      | INUJIMA, Hiroshi  | Thu | 1,2    | 4      |
|          | 440112350E | Machine Diagnosis Techniques C      | E・J      | INUJIMA, Hiroshi  | Thu | 3      | 2      |
| Fall     | 440112330E | Machine Diagnosis Techniques A      | E・J      | INUJIMA, Hiroshi  | Thu | 5      | 2      |
|          | 440112360E | Machine Diagnosis Techniques D      | E・J      | INUJIMA, Hiroshi  | Thu | 4      | 2      |
| Spring   | 440112300E | System Control B                    | E・J      | LEE, HeeHyol      | Fri | 4,5    | 4      |
|          | 440112310E | System Control C                    | E・J      | LEE, HeeHyol      | Tue | 5      | 2      |
| Fall     | 440112290E | System Control A                    | E・J      | LEE, HeeHyol      | Tue | 5      | 2      |
|          | 440112320E | System Control D                    | E・J      | LEE, HeeHyol      | Fri | 4      | 2      |
| Spring   | 440112540E | Bioelectronics B                    | E・J      | MIYAKE, Takeo     | Sat | 1,2    | 4      |
|          | 440112550E | Bioelectronics C                    | E・J      | MIYAKE, Takeo     | Sat | 3      | 2      |
| Fall     | 440112560E | Bioelectronics A                    | E・J      | MIYAKE, Takeo     | Sat | 2      | 2      |
|          | 440112570E | Bioelectronics D                    | E・J      | MIYAKE, Takeo     | Sat | 3      | 2      |
| Spring   | 440112220E | Manufacturing Information Systems B | E        | MURATA, Tomohiro  | Thu | 3,4    | 4      |
|          | 440112230E | Manufacturing Information Systems C | E        | MURATA, Tomohiro  | Thu | 5      | 2      |
| Fall     | 440112210E | Manufacturing Information Systems A | E        | MURATA, Tomohiro  | Thu | 4      | 2      |
|          | 440112240E | Manufacturing Information Systems D | E        | MURATA, Tomohiro  | Thu | 5      | 2      |
| Spring   | 440112100E | Process Control B                   | E・J      | OGAI, Harutoshi   | Thu | 1,2    | 4      |
|          | 440112110E | Process Control C                   | E・J      | OGAI, Harutoshi   | Tue | 1      | 2      |
| Fall     | 440112090E | Process Control A                   | E・J      | OGAI, Harutoshi   | Tue | 1      | 2      |
|          | 440112120E | Process Control D                   | E・J      | OGAI, Harutoshi   | Thu | 1      | 2      |
| Spring   | 440112620E | Biomedical Optics B                 | E・J      | SHIMIZU, Koichi   | Wed | 2,3    | 4      |
|          | 440112630E | Biomedical Optics C                 | E・J      | SHIMIZU, Koichi   | Wed | 5      | 2      |
| Fall     | 440112640E | Biomedical Optics A                 | E・J      | SHIMIZU, Koichi   | Wed | 3      | 2      |
|          | 440112650E | Biomedical Optics D                 | E・J      | SHIMIZU, Koichi   | Wed | 5      | 2      |
| Spring   | 440112660E | Mechanical System Design B          | E・J      | TANAKA, Eiichiro  | Wed | 3,4    | 4      |
|          | 440112670E | Mechanical System Design C          | E・J      | TANAKA, Eiichiro  | Thu | 4      | 2      |
| Fall     | 440112680E | Mechanical System Design A          | E・J      | TANAKA, Eiichiro  | Wed | 2      | 2      |
|          | 440112690E | Mechanical System Design D          | E・J      | TANAKA, Eiichiro  | Wed | 5      | 2      |
| Spring   | 440112060E | Production Process B                | E・J      | TATENO, Shigeyuki | Thu | 4,5    | 4      |
|          | 440112070E | Production Process C                | E・J      | TATENO, Shigeyuki | Thu | 3      | 2      |
| Fall     | 440112050E | Production Process A                | E・J      | TATENO, Shigeyuki | Thu | 5      | 2      |
|          | 440112080E | Production Process D                | E・J      | TATENO, Shigeyuki | Thu | 3      | 2      |
| Spring   | 440112520E | Advanced Materials B                | E・J      | TATSUMI, Kohei    | Wed | 4,5    | 4      |
|          | 440112510E | Advanced Materials C                | E・J      | TATSUMI, Kohei    | Wed | 6      | 2      |
| Fall     | 440112490E | Advanced Materials A                | E・J      | TATSUMI, Kohei    | Tue | 1      | 2      |
|          | 440112500E | Advanced Materials D                | E・J      | TATSUMI, Kohei    | Wed | 4      | 2      |

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 Web Syllabus : <https://www.wsl.waseda.jp/syllabus/JAA101.php?pLng=en>

## &lt;Integrated Systems&gt;

| Semester | Course Key | Course Title                                   | Language | Instructor           | Day | Period | Credit |
|----------|------------|------------------------------------------------|----------|----------------------|-----|--------|--------|
| Spring   | 440113610E | Micro Electro-Mechanical Systems B             | E・J      | IKEHASHI, Tamio      | Fri | 2,3    | 4      |
|          | 440113620E | Micro Electro-Mechanical Systems C             | E・J      | IKEHASHI, Tamio      | Fri | 4      | 2      |
| Fall     | 440113600E | Micro Electro-Mechanical Systems A             | E・J      | IKEHASHI, Tamio      | Tue | 3      | 2      |
|          | 440113630E | Micro Electro-Mechanical Systems D             | E・J      | IKEHASHI, Tamio      | Tue | 4      | 2      |
| Spring   | 440113100E | Image Information Systems B                    | E・J      | IKENAGA, Takeshi     | Wed | 2,3    | 4      |
|          | 440113110E | Image Information Systems C                    | E・J      | IKENAGA, Takeshi     | Wed | 4      | 2      |
| Fall     | 440113090E | Image Information Systems A                    | E・J      | IKENAGA, Takeshi     | Tue | 5      | 2      |
|          | 440113120E | Image Information Systems D                    | E・J      | IKENAGA, Takeshi     | Tue | 4      | 2      |
| Spring   | 440113650E | Light Emitting Systems B                       | E・J      | KAKITSUKA, Takaaki   | Tue | 3,4    | 4      |
|          | 440113660E | Light Emitting Systems C                       | E・J      | KAKITSUKA, Takaaki   | Wed | 4      | 2      |
| Fall     | 440113640E | Light Emitting Systems A                       | E・J      | KAKITSUKA, Takaaki   | Thu | 2      | 2      |
|          | 440113670E | Light Emitting Systems D                       | E・J      | KAKITSUKA, Takaaki   | Tue | 2      | 2      |
| Spring   | 440113380E | High-Level Verification Technologies B         | E・J      | KIMURA, Shinji       | Tue | 3,4    | 4      |
|          | 440113390E | High-Level Verification Technologies C         | E・J      | KIMURA, Shinji       | Thu | 4      | 2      |
| Fall     | 440113370E | High-Level Verification Technologies A         | E・J      | KIMURA, Shinji       | Thu | 1      | 2      |
|          | 440113400E | High-Level Verification Technologies D         | E・J      | KIMURA, Shinji       | Thu | 4      | 2      |
| Spring   | 440113530E | Emerging Memory System B                       | E・J      | OHSAWA, Takashi      | Fri | 3,4    | 4      |
|          | 440113540E | Emerging Memory System C                       | E・J      | OHSAWA, Takashi      | Fri | 5      | 2      |
| Fall     | 440113550E | Emerging Memory System A                       | E・J      | OHSAWA, Takashi      | Fri | 3      | 2      |
|          | 440113560E | Emerging Memory System D                       | E・J      | OHSAWA, Takashi      | Fri | 5      | 2      |
| Spring   | 440113460E | Dependable Information Systems B               | E・J      | SHINOHARA, Hirofumi  | Thu | 5,6    | 4      |
|          | 440113470E | Dependable Information Systems C               | E・J      | SHINOHARA, Hirofumi  | Tue | 6      | 2      |
| Fall     | 440113440E | Dependable Information Systems A               | E・J      | SHINOHARA, Hirofumi  | Tue | 6      | 2      |
|          | 440113450E | Dependable Information Systems D               | E・J      | SHINOHARA, Hirofumi  | Thu | 6      | 2      |
| Spring   | 440113490E | Opto-electronic Integrated Systems B           | E・J      | TAKAHATA, Kiyoto     | Thu | 5,6    | 4      |
|          | 440113500E | Opto-electronic Integrated Systems C           | E・J      | TAKAHATA, Kiyoto     | Wed | 4      | 2      |
| Fall     | 440113510E | Opto-electronic Integrated Systems A           | E・J      | TAKAHATA, Kiyoto     | Tue | 3      | 2      |
|          | 440113520E | Opto-electronic Integrated Systems D           | E・J      | TAKAHATA, Kiyoto     | Tue | 2      | 2      |
| Spring   | 440113300E | ASIC Design Automation B                       | E・J      | WATANABE, Takahiro   | Wed | 2,3    | 4      |
|          | 440113310E | ASIC Design Automation C                       | E・J      | WATANABE, Takahiro   | Thu | 4      | 2      |
| Fall     | 440113290E | ASIC Design Automation A                       | E・J      | WATANABE, Takahiro   | Tue | 4      | 2      |
|          | 440113320E | ASIC Design Automation D                       | E・J      | WATANABE, Takahiro   | Thu | 4      | 2      |
| Spring   | 440113220E | Wireless Communication Circuits Technologies B | E・J      | YOSHIMASU, Toshihiko | Thu | 4,5    | 4      |
|          | 440113230E | Wireless Communication Circuits Technologies C | E・J      | YOSHIMASU, Toshihiko | Tue | 5      | 2      |
| Fall     | 440113210E | Wireless Communication Circuits Technologies A | E・J      | YOSHIMASU, Toshihiko | Tue | 5      | 2      |
|          | 440113240E | Wireless Communication Circuits Technologies D | E・J      | YOSHIMASU, Toshihiko | Thu | 3      | 2      |

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