Attached Table No. 2 (Related to Article 5) Specialized Courses

**(For students who enroll therein after AY2022)**

Notes : shaded Courses shaded in the table are "SR (strongly recommended courses)"
※1 Academic Credits, etc. of "07 Graduate School Courses" are set by the Graduate School Regulation on the Completion of University of Aizu Graduate School Studies.

● Required Number of Credits for Graduation is allowed up to atotal of 4 credits

Fields
CS Computer Science
SY Computer Systems
CN Computer Network Systems
IT(SPR,CMV) Information Technologies
SE-DE Software Engineering

| Classification of Courses (Categories) | | | Code | Course Name | SR | Academic Credits | | | Field recommend | | | | | | Standard Year of Course Completion (num. of slots) 50min/slot | | | | | | | | | | | | | | | | Note Opning Class in AY2022 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | 1st year | | | | 2nd Year | | | | 3rd Year | | | | 4th Year | | | | |
| Category | Sub-category | | | | | Required | Elective | Optional | CS | SY | CN | IT-SPR | IT-CMV | SE-DE | S1 | | S2 | | S1 | | S2 | | S1 | | S2 | | S1 | | S2 | | |
| | | | | | | | | | | | | | | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | (Retake) |
| Specialized Courses | Specialized Fundamental Courses | Mathematics (MA) | MA01 | Linear Algebra I | ○ | | 2 | | | | | | | | 6(Q1/2) | | | | | | | | | | | | | | | | Q3 |
| | | | MA02 | Linear Algebra II | ○ | | 2 | | | | | | | | | | 6(Q3/4) | | | | | | | | | | | | | | Q1 |
| | | | MA03 | Calculus I | ○ | | 2 | | | | | | | | 6(Q1/2) | | | | | | | | | | | | | | | | Q4 |
| | | | MA04 | Calculus II | ○ | | 2 | | | | | | | | | | 6(Q3/4) | | | | | | | | | | | | | | Q2 |
| | | | MA05 | Fourier Analysis | | | 2 | | | | | | | | | | | | 4 | | | | | | | | | | | | - |
| | | | MA06 | Complex Analysis | | | 2 | | | | | | | | | | | | | | | 4 | | | | | | | | | - |
| | | | MA07 | Probability and Statistics | ○ | | 2 | | | | | | | | | | | | 4 | | | | | | | | | | | | - |
| | | | MA08 | Applied Algebra | | | 2 | | ○ | | | ○ | ○ | | | | | | | | | | | 4 | | | | | | | - |
| | | | MA09 | Mathematical Logic | | | 2 | | ○ | | | | | | | | | | | | | | 4 | | | | | | | | - |
| | | | MA10 | Introduction to Topology | | | 2 | | | | | | | | | | | | | | | | | | 4 | | | | | | - |
| | | | MA11 | Applied Geometry and Topology | | | 2 | | | | | | | | | | | | | | | | | | 4 | | | | | | - |
| | | Natural Science (NS) | NS01 | Dynamics | ○ | | 2 | | | | | | | | | 8 | | | | | | | | | | | | | | | Q3 |
| | | | NS02 | Electromagnetism | ○ | | 2 | | | | | | | | | | | 8 | | | | | | | | | | | | | - |
| | | | NS03 | Quantum Mechanics | | | 2 | | | | | | | | | | | | 4 | | | | | | | | | | | | - |
| | | | NS04 | Semiconductor Devices | | | 2 | | | | | | | | | | | | | | 4 | | | | | | | | | | - |
| | | | NS05 | Thermodynamics and Statistical Mechanics | | | 2 | | | | | | | | | | | | | 4 | | | | | | | | | | | - |
| | | Computer Fundamentals (LI) | LI01 | Computer Literacy | ○ | | 4 | | | | | | | | 8 | | | | | | | | | | | | | | | | - |
| | | | LI03 | Guidance of Computer Science and Engineering | ○ | | 2 | | | | | | | | 4 | | | | | | | | | | | | | | | | - |
| | | | LI04 | Introduction to Computer Systems | ○ | | 2 | | | | | | | | | | 4 | | | | | | | | | | | | | | - |
| | | | LI06 | Information Security | ○ | | 2 | | | | | | | | | | 4 | | | | | | | | | | | | | | - |
| | | | LI07 | Information and Occupations | | | | 2 | | | | | | | | | | | | | | | | | | | | 4(Int) | | | - |
| | | | LI08 | Information Ethics | ○ | | 2 | | | | | | | | 4 | | | | | | | | | | | | | | | | - |
| | | | LI09 | Fundamentals of System Development and Project Management | | | 2 | | | | | | | | | | | | | | | | | | | | | 4 | | | - |
| | | | LI10 | Introduction to Multimedia Systems | ○ | | 2 | | | | | | | | | | | | | | | 4 | | | | | | | | | - |
| | | | LI11 | Introduction to Computer Network | ○ | | 2 | | | | | | | | | | | | | | 4 | | | | | | | | | | - |
| | | | LI12 | Creativity Studio | | | 2 | | | | | | | | | | | | 2(Int) | | | | | | | | | | | | |
| | | | LI13 | CSE Exercise I | | | 3 | | | | | | | | | | | | 3(S) | | | | | | | | | | | | - |
| | | | LI14 | CSE Exercise II | | | 3 | | | | | | | | | | | | | | 3(S) | | | | | | | | | | - |
| | | Programming Languages (PL) | PL01 | Introduction to Programming | ○ | | 4 | | | | | | | | | 8 | | | | | | | | | | | | | | | - |
| | | | PL02 | C Programming | ○ | | 4 | | | | | | | | | | 8 | | | | | | | | | | | | | | - |
| | | | PL03 | Java Programming I | ○ | | 4 | | | | | | | | | | | | 8 | | | | | | | | | | | | Q4 |
| | | | PL04 | C++ Programming | | | 3 | | ○ | | | ○ | ○ | ○ | | | | | | | | | | | 6 | | | | | | - |
| | | | PL05 | Computer Languages | | | 3 | | | | | | | | | | | | | | | | | | | | 6 | | | | - |
| | | | PL06 | Java Programming II | | | 3 | | | | | | | ○ | | | | | | | | | 6 | | | | | | | | - |
| | | Foundations of Computer Science & Engineering (FU) | FU01 | Algorithms and Data Structures I | ○ | | 4 | | | | | | | | | | | 8 | | | | | | | | | | | | | - |
| | | | FU02 | Information Theory and Data Compression | | | 3 | | ○ | | ○ | ○ | ○ | | | | | | | | | | | | 6 | | | | | | - |
| | | | FU03 | Discrete Systems | ○ | | 3 | | | | | | | | | | | | | 6 | | | | | | | | | | | - |
| | | | FU04 | Logic Circuit Design | ○ | | 4 | | | | | | | | | | | | | | 8 | | | | | | | | | | - |
| | | | FU05 | Computer Architecture | ○ | | 4 | | | | | | | | | | | | | | | | 8 | | | | | | | | - |
| | | | FU06 | Operating Systems | ○ | | 4 | | | | | | | | | | | | | | | 8 | | | | | | | | | - |
| | | | FU08 | Automata and Languages | ○ | | 3 | | | | | | | | | | | | | | | 6 | | | | | | | | | - |
| | | | FU09 | Algorithms and Data Structures II | | | 3 | | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | | 6 | | | | | | | - |
| | | | FU10 | Language Processing Systems | | | 3 | | | | | | | | | | | | | | | | | | | | 6 | | | | - |
| | | | FU11 | Numerical Analysis | | | 3 | | ○ | | | ○ | ○ | | | | | | | | | | | | | 6 | | | | | - |
| | | | FU14 | Introduction to Software Engineering | ○ | | 3 | | | | | | | | | | | | | | | | 6 | | | | | | | | - |
| | | | FU15 | Introduction to Data Management | ○ | | 3 | | | | | | | | | | | | | 6 | | | | | | | | | | | - |

| Classification of Courses (Categories) | | | Code | Course Name | SR | Academic Credits | | | Field recommend | | | | | | Standard Year of Course Completion (num. of slots) 50min/slot | | | | | | | | | | | | | | | | Note Opning Class in AY2022 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | 1st year | | | | 2nd Year | | | | 3rd Year | | | | 4th Year | | | | |
| | | | | | | | | | | | | | | | S1 | | S2 | | S1 | | S2 | | S1 | | S2 | | S1 | | S2 | | |
| Category | Sub-category | | | | | Required | Elective | Optional | CS | SY | CN | IT-SPR | IT-CMV | SE-DE | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | (Retake) |
| Courses | Advanced Courses | Computer Systems (SY) | SY02 | Electronics | | | 4 | | | ○ | | | | | | | | | | | | | | | | 8 | | | | | - |
| | | | SY04 | Embedded Systems | | | 4 | | | ○ | | | | | | | | | | | | | | | | 8 | | | | | - |
| | | | SY05 | Parallel Computer Systems | | | 3 | | | ○ | | | | | | | | | | | | | | | 6 | | | | | | - |
| | | | SY06 | VLSI Design | | | 2 | | | ○ | | | | | | | | | | | | | | 4 | | | | | | | - |
| | | | SY07 | Advanced Logic Circuit Design | | | 3 | | | ○ | | | | | | | | | | | | | | 6 | | | | | | | - |
| | | Computer Network Systems (CN) | CN02 | Network Security | | | 3 | | | | ○ | | | | | | | | | | | | | 6 | | | | | | | - |
| | | | CN03 | Network Programming | | | 3 | | | | ○ | | | | | | | | | | | | | | 6 | | | | | | - |
| | | | CN04 | Wireless Networking | | | 2 | | | | ○ | | | | | | | | | | | | | | | 4 | | | | | - |
| | | | CN05 | Computer and Network System Modeling and Simulation | | | 3 | | | | ○ | | | | | | | | | | | | | | | 6 | | | | | - |
| | | Applications (IT) | IT01 | Artificial Intelligence | | | 4 | | | | | ○ | ○ | | | | | | | | | | | | 8 | | | | | | - |
| | | | IT02 | Computer Graphics | | | 3 | | ○ | | | ○ | ○ | | | | | | | | | | | 6 | | | | | | | - |
| | | | IT03 | Image Processing | | | 3 | | | | | ○ | ○ | | | | | | | | | | | | | | | 6 | | | - |
| | | | IT05 | Robotics and Automatic Control | | | 3 | | | | | | ○ | | | | | | | | | | | | | | 6 | | | | - |
| | | | IT06 | Human Interface and Virtual Reality | | | 3 | | | | | ○ | ○ | | | | | | | | | | | | | | 6 | | | | - |
| | | | IT08 | Signal Processing and Linear System | | | 4 | | ○ | ○ | | ○ | | | | | | | | | | | 8 | | | | | | | | - |
| | | | IT09 | Sound and Audio Processing | | | 3 | | | | | ○ | | | | | | | | | | | | | | | 6 | | | | - |
| | | | IT10 | Geometory for Visual Computing | | | 3 | | | | | | ○ | | | | | | | | | | 6 | | | | | | | | - |
| | | | IT11 | Information Retrieval and Natural Language Processing | | | 3 | | ○ | | | ○ | | | | | | | | | | | | | | 6 | | | | | - |
| | | Software Engineering (SE) | SE01 | Web Engineering | | | 3 | | | | | | | ○ | | | | | | | | | | 6 | | | | | | | - |
| | | | SE04 | Advanced Software Engineering | | | 3 | | | | | | | ○ | | | | | | | | | | | | 6 | | | | | - |
| | | | SE05 | Software Studio | | | 3 | | | | | | | ○ | | | | | | | | | | | | | 3(S) | | | | - |
| | | | SE06 | Concurrent and distributed systems | | | 3 | | | | | | | ○ | | | | | | | | | | | | 6 | | | | | - |
| | | | SE07 | Database Systems | | | 3 | | | | | | | ○ | | | | | | | | | | 6 | | | | | | | - |
| | | | SE08 | Introduction to Data Mining | | | 3 | | | | | | | ○ | | | | | | | | | | | 6 | | | | | | - |
| | | Others (OT) | OT01 | Basic Knowledge Course on Starting Up Ventures I,II | | | 2 each | | | | | | | | | | | | 4 | | | | | | | | | | | | - |
| | | | OT02 | Factories for Experiencing Starting Up Ventures ①～④ | | | 1 each | | | | | | | | | | | | 2(S) | | | | | | | | | | | | - |
| | | | OT03 | SCCP | | | | 1 each | | | | | | | 2(S) | | | | | | | | | | | | | | | | - |
| | | | OT04 | Courses for the Information Technology Examination | | | | 1 | | | | | | | 4(Int) | | | | | | | | | | | | | | | | - |
| | | | OT05 | Career Design I | | | | 1 | | | | | | | | | | | 2(S) | | | | | | | | | | | | - |
| | | | OT06 | Career Design II | | | | 1 | | | | | | | | | | | | | | | | | 2(S) | | | | | | - |
| | | | OT07 | Graduate School Courses ※ | | | | ※1 | | | | | | | | | | | | | | | | | | | | ※ | | | - |
| | | | OT08 | TOEIC Preparation Course①～④ | | | | 1 each | | | | | | | 2(S) | | | | | | | | | | | | | | | | - |
| | | | OT09 | Extracurricular Activity Course I | | | ●1 each | | | | | | | | 2(Int) | | | | | | | | | | | | | | | | - |
| | | | OT10 | Extracurricular Activity Course II | | | ●2 each | | | | | | | | 4(Int) | | | | | | | | | | | | | | | | |
| | | | OT11 | ICT Ventures Startup and Management | | | 2 | | | | | | | | 4(Q3) | | | | | | | | | | | | | | | | - |
| | Practical Projects (PP) | | IE01 | Integrated Exercise for Systems I | | | 3 | | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | 3(S) | | | | | | | | - |
| | | | IE02 | Integrated Exercise for Systems II | | | 3 | | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | | | 3(S) | | | | | | - |
| | | | IE03 | Integrated Exercise for Software I | | | 3 | | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | 3(S) | | | | | | | | - |
| | | | IE04 | Integrated Exercise for Software II | | | 3 | | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | | | 3(S) | | | | | | - |
| Graduation Thesis (GT) | | | GT01 | Graduation Thesis | | 8 | | | | | | | | | | | | | | | | | | | | | | | | | |

Attached Table No. 2 (Related to Article 5) Specialized Courses

**(For students who enroll therein before AY2021)**

Notes : shaded Courses shaded in the table are "SR (strongly recommended courses)"
※1 Academic Credits, etc. of "07 Graduate School Courses" are set by the Graduate School Regulation on the Completion of University of Aizu Graduate School Studies.
※2 To take two courses out of Integrated Exercise

● Required Number of Credits for Graduation is allowed up to atotal of 4 credits

Fields
CS Computer Science
SY Computer Systems
CN Computer Network Systems
IT(SPR,CMV) Information Technologies
SE-DE Software Engineering

| Classification of Courses (Categories) | | | Code | Course Name | SR | Academic Credits | | | Field recommend | | | | | | Standard Year of Course Completion (num. of slots) 50min/slot | | | | | | | | | | | | | | | | Note Opning Class in AY2022 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | 1st year | | | | 2nd Year | | | | 3rd year | | | | 4th Year | | | | |
| Category | Sub-category | | | | | Required | Elective | Optional | CS | SY | CN | IT-SPR | IT-CMV | SE-DE | S1 | | S2 | | S1 | | S2 | | S1 | | S2 | | S1 | | S2 | | |
| | | | | | | | | | | | | | | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | (Retake) |
| Specialized Courses | Specialized Fundamental Courses | Mathematics (MA) | MA01 | Linear Algebra I | ○ | | 2 | | | | | | | | 6(Q1/2) | | | | | | | | | | | | | | | | Q3 |
| | | | MA02 | Linear Algebra II | ○ | | 2 | | | | | | | | | | 6(Q3/4) | | | | | | | | | | | | | | Q1 |
| | | | MA03 | Calculus I | ○ | | 2 | | | | | | | | 6(Q1/2) | | | | | | | | | | | | | | | | Q4 |
| | | | MA04 | Calculus II | ○ | | 2 | | | | | | | | | | 6(Q3/4) | | | | | | | | | | | | | | Q2 |
| | | | MA05 | Fourier Analysis | | | 2 | | | | | | | | | | | | 4 | | | | | | | | | | | | - |
| | | | MA06 | Complex Analysis | | | 2 | | | | | | | | | | | | | | | 4 | | | | | | | | | - |
| | | | MA07 | Probability and Statistics | ○ | | 2 | | | | | | | | | | | | 4 | | | | | | | | | | | | - |
| | | | MA08 | Applied Algebra | | | 2 | | ○ | | | ○ | ○ | | | | | | | | | | | 4 | | | | | | | - |
| | | | MA09 | Mathematical Logic | | | 2 | | ○ | | | | | | | | | | | | | | 4 | | | | | | | | - |
| | | | MA10 | Introduction to Topology | | | 2 | | | | | | | | | | | | | | | | | | 4 | | | | | | - |
| | | | MA11 | Applied Geometry and Topology | | | 2 | | | | | | | | | | | | | | | | | | 4 | | | | | | - |
| | | Natural Science (NS) | NS01 | Dynamics | ○ | | 2 | | | | | | | | | 8 | | | | | | | | | | | | | | | Q3 |
| | | | NS02 | Electromagnetism | ○ | | 2 | | | | | | | | | | | 8 | | | | | | | | | | | | | - |
| | | | NS03 | Quantum Mechanics | | | 2 | | | | | | | | | | | | 4 | | | | | | | | | | | | - |
| | | | NS04 | Semiconductor Devices | | | 2 | | | | | | | | | | | | | | 4 | | | | | | | | | | - |
| | | | NS05 | Thermodynamics and Statistical Mechanics | | | 2 | | | | | | | | | | | | | 4 | | | | | | | | | | | - |
| | | Computer Fundamentals (LI) | LI01 | Computer Literacy | ○ | | 4 | | | | | | | | 8 | | | | | | | | | | | | | | | | - |
| | | | LI03 | Guidance of Computer Science and Engineering | ○ | | 2 | | | | | | | | 4 | | | | | | | | | | | | | | | | - |
| | | | LI04 | Introduction to Computer Systems | ○ | | 2 | | | | | | | | | | 4 | | | | | | | | | | | | | | - |
| | | | LI06 | Information Security | ○ | | 2 | | | | | | | | | | 4 | | | | | | | | | | | | | | - |
| | | | LI07 | Information and Occupations | | | | 2 | | | | | | | | | | | | | | | | | | | | 4(Int) | | | - |
| | | | LI08 | Information Ethics | ○ | | 2 | | | | | | | | 4 | | | | | | | | | | | | | | | | - |
| | | | LI09 | Fundamentals of System Development and Project Management | | | 2 | | | | | | | | | | | | | | | | | | | | | 4 | | | - |
| | | | LI10 | Introduction to Multimedia Systems | ○ | | 2 | | | | | | | | | | | | | | | 4 | | | | | | | | | - |
| | | | LI11 | Introduction to Computer Network | ○ | | 2 | | | | | | | | | | | | | | 4 | | | | | | | | | | - |
| | | | LI12 | Creativity Studio | | | 2 | | | | | | | | | | | | 2(Int) | | | | | | | | | | | | |
| | | | LI13 | CSE Exercise I | | | 3 | | | | | | | | | | | | 3(S) | | | | | | | | | | | | - |
| | | | LI14 | CSE Exercise II | | | 3 | | | | | | | | | | | | | | 3(S) | | | | | | | | | | - |
| | | Programming Languages (PL) | PL01 | Introduction to Programming | ○ | | 4 | | | | | | | | | 8 | | | | | | | | | | | | | | | - |
| | | | PL02 | C Programming | ○ | | 4 | | | | | | | | | | 8 | | | | | | | | | | | | | | - |
| | | | PL03 | Java Programming I | ○ | | 4 | | | | | | | | | | | | 8 | | | | | | | | | | | | Q4 |
| | | | PL04 | C++ Programming | | | 3 | | ○ | | | ○ | ○ | ○ | | | | | | | | | | | 6 | | | | | | - |
| | | | PL05 | Computer Languages | | | 3 | | | | | | | | | | | | | | | | | | | | 6 | | | | - |
| | | | PL06 | Java Programming II | | | 3 | | | | | | | ○ | | | | | | | | | 6 | | | | | | | | - |
| | | Foundations of Computer Science & Engineering (FU) | FU01 | Algorithms and Data Structures I | ○ | | 4 | | | | | | | | | | | 8 | | | | | | | | | | | | | - |
| | | | FU02 | Information Theory and Data Compression | | | 3 | | ○ | | ○ | ○ | ○ | | | | | | | | | | | | 6 | | | | | | - |
| | | | FU03 | Discrete Systems | ○ | | 3 | | | | | | | | | | | | | 6 | | | | | | | | | | | - |
| | | | FU04 | Logic Circuit Design | ○ | | 4 | | | | | | | | | | | | | | 8 | | | | | | | | | | - |
| | | | FU05 | Computer Architecture | ○ | | 4 | | | | | | | | | | | | | | | | 8 | | | | | | | | - |
| | | | FU06 | Operating Systems | ○ | | 4 | | | | | | | | | | | | | | | 8 | | | | | | | | | - |
| | | | FU08 | Automata and Languages | ○ | | 3 | | | | | | | | | | | | | | | 6 | | | | | | | | | - |
| | | | FU09 | Algorithms and Data Structures II | | | 3 | | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | | 6 | | | | | | | - |
| | | | FU10 | Language Processing Systems | | | 3 | | | | | | | | | | | | | | | | | | | | 6 | | | | - |
| | | | FU11 | Numerical Analysis | | | 3 | | ○ | | | ○ | ○ | | | | | | | | | | | | | 6 | | | | | - |
| | | | FU14 | Introduction to Software Engineering | ○ | | 3 | | | | | | | | | | | | | | | | 6 | | | | | | | | - |
| | | | FU15 | Introduction to Data Management | ○ | | 3 | | | | | | | | | | | | | 6 | | | | | | | | | | | - |

| Classification of Courses (Categories) | | | Code | Course Name | SR | Academic Credits | | | Field recommend | | | | | | Standard Year of Course Completion (num. of slots) 50min/slot | | | | | | | | | | | | | | | | Note Opning Class in AY2022 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | 1st year | | | | 2nd Year | | | | 3rd year | | | | 4th Year | | | | |
| Category | Sub-category | | | | | Required | Elective | Optional | CS | SY | CN | IT-SPR | IT-CMV | SE-DE | S1 | | S2 | | S1 | | S2 | | S1 | | S2 | | S1 | | S2 | | |
| | | | | | | | | | | | | | | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | (Retake) |
| Courses | Advanced Courses | Computer Systems (SY) | SY02 | Electronics | | | 4 | | | ○ | | | | | | | | | | | | | | | | 8 | | | | | - |
| | | | SY04 | Embedded Systems | | | 4 | | | ○ | | | | | | | | | | | | | | | | 8 | | | | | - |
| | | | SY05 | Parallel Computer Systems | | | 3 | | | ○ | | | | | | | | | | | | | | | 6 | | | | | | - |
| | | | SY06 | VLSI Design | | | 2 | | | ○ | | | | | | | | | | | | | | 4 | | | | | | | - |
| | | | SY07 | Advanced Logic Circuit Design | | | 3 | | | ○ | | | | | | | | | | | | | | 6 | | | | | | | - |
| | | Computer Network Systems (CN) | CN02 | Network Security | | | 3 | | | | ○ | | | | | | | | | | | | | 6 | | | | | | | - |
| | | | CN03 | Network Programming | | | 3 | | | | ○ | | | | | | | | | | | | | | 6 | | | | | | - |
| | | | CN04 | Wireless Networking | | | 2 | | | | ○ | | | | | | | | | | | | | | | 4 | | | | | - |
| | | | CN05 | Computer and Network System Modeling and Simulation | | | 3 | | | | ○ | | | | | | | | | | | | | | | 6 | | | | | - |
| | | Applications (IT) | IT01 | Artificial Intelligence | | | 4 | | | | | ○ | ○ | | | | | | | | | | | | 8 | | | | | | - |
| | | | IT02 | Computer Graphics | | | 3 | | ○ | | | ○ | ○ | | | | | | | | | | | 6 | | | | | | | - |
| | | | IT03 | Image Processing | | | 3 | | | | | ○ | ○ | | | | | | | | | | | | | | | 6 | | | - |
| | | | IT05 | Robotics and Automatic Control | | | 3 | | | | | | ○ | | | | | | | | | | | | | | 6 | | | | - |
| | | | IT06 | Human Interface and Virtual Reality | | | 3 | | | | | ○ | ○ | | | | | | | | | | | | | | 6 | | | | - |
| | | | IT08 | Signal Processing and Linear System | | | 4 | | ○ | ○ | | ○ | | | | | | | | | | | 8 | | | | | | | | - |
| | | | IT09 | Sound and Audio Processing | | | 3 | | | | | ○ | | | | | | | | | | | | | | | 6 | | | | - |
| | | | IT10 | Geometory for Visual Computing | | | 3 | | | | | | ○ | | | | | | | | | | 6 | | | | | | | | - |
| | | | IT11 | Information Retrieval and Natural Language Processing | | | 3 | | ○ | | | ○ | | | | | | | | | | | | | | 6 | | | | | - |
| | | Software Engineering (SE) | SE01 | Web Engineering | | | 3 | | | | | | | ○ | | | | | | | | | | 6 | | | | | | | - |
| | | | SE04 | Advanced Software Engineering | | | 3 | | | | | | | ○ | | | | | | | | | | | | 6 | | | | | - |
| | | | SE05 | Software Studio | | | 3 | | | | | | | ○ | | | | | | | | | | | | | 3(S) | | | | - |
| | | | SE06 | Concurrent and distributed systems | | | 3 | | | | | | | ○ | | | | | | | | | | | | 6 | | | | | - |
| | | | SE07 | Database Systems | | | 3 | | | | | | | ○ | | | | | | | | | | 6 | | | | | | | - |
| | | | SE08 | Introduction to Data Mining | | | 3 | | | | | | | ○ | | | | | | | | | | | 6 | | | | | | - |
| | | Integrated Exercise(IE) | IE01 | Integrated Exercise for Systems I | | | 3 | | ○ | ○ | ○ | ○※2 | ○※2 | ○ | | | | | | | | | 3(S) | | | | | | | | - |
| | | | IE02 | Integrated Exercise for Systems II | | | 3 | | ○ | ○ | ○ | ○※2 | ○※2 | ○ | | | | | | | | | | | 3(S) | | | | | | - |
| | | | IE03 | Integrated Exercise for Software I | | | 3 | | ○ | ○ | ○ | ○※2 | ○※2 | ○ | | | | | | | | | 3(S) | | | | | | | | - |
| | | | IE04 | Integrated Exercise for Software II | | | 3 | | ○ | ○ | ○ | ○※2 | ○※2 | ○ | | | | | | | | | | | 3(S) | | | | | | - |
| | | Others (OT) | OT01 | Basic Knowledge Course on Starting Up Ventures I,II | | | 2 each | | | | | | | | | | | | 4 | | | | | | | | | | | | - |
| | | | OT02 | Factories for Experiencing Starting Up Ventures ①～④ | | | 1 each | | | | | | | | | | | | 2(S) | | | | | | | | | | | | - |
| | | | OT03 | SCCP | | | | 1 each | | | | | | | 2(S) | | | | | | | | | | | | | | | | - |
| | | | OT04 | Courses for the Information Technology Examination | | | | 1 | | | | | | | 4(Int) | | | | | | | | | | | | | | | | - |
| | | | OT05 | Career Design I | | | | 1 | | | | | | | | | | | 2(S) | | | | | | | | | | | | - |
| | | | OT06 | Career Design II | | | | 1 | | | | | | | | | | | | | | | | | 2(S) | | | | | | - |
| | | | OT07 | Graduate School Courses ※ | | | | ※1 | | | | | | | | | | | | | | | | | | | | ※ | | | - |
| | | | OT08 | TOEIC Preparation Course①～④ | | | | 1 each | | | | | | | 2(S) | | | | | | | | | | | | | | | | - |
| | | | OT09 | Extracurricular Activity Course I | | | ●1 each | | | | | | | | 2(Int) | | | | | | | | | | | | | | | | - |
| | | | OT10 | Extracurricular Activity Course II | | | ●2 each | | | | | | | | 4(Int) | | | | | | | | | | | | | | | | |
| | | | OT11 | ICT Ventures Startup and Management | | | 2 | | | | | | | | 4(Q3) | | | | | | | | | | | | | | | | - |
| Graduation Thesis (GT) | | | GT01 | Graduation Thesis | | 8 | | | | | | | | | | | | | | | | | | | | | | | | | |