

AY2024 ICTG Program Course List

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| <p>【The courses of ICT Global Program All-English Program】</p> <p>(1) English-medium instruction subjects except English Language subjects.</p> <p>(2) Foreign Language subjects</p> <p>(3) Graduation thesis</p> |
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Red: Strongly Recommended Courses(SR), Blue: Field Recommended Courses, Black: Other Courses and Optional Courses

| Standard Year | Quarter | Course Name | Credit |
|---------------|-----------|---|--------|
| 1 | 1, 2 | SS03 Health and Sports Science Practicum 3 | 1 |
| 1 | 1 | JP03 Intermediate Japanese I | 1 |
| 1 | 1 | MA04 Calculus II | 2 |
| 1 | 1 | LI04 Introduction to Computer Systems | 2 |
| 1 | 1 | LI06 Information Security | 2 |
| 1 | 1 | PL02 C Programming | 4 |
| 1 | 2 | HS27 Introduction to Psycholinguistics | 2 |
| 1 | 2 | JP04 Intermediate Japanese II | 1 |
| 1 | 2 | MA02 Linear Algebra II | 2 |
| 1 | 2 | NS02 Electromagnetism | 2 |
| 1 | 2 | FU01 Algorithms and Data Structures I | 4 |
| 1,2 | Intensive | HS01 Philosophy | 2 |
| 1,2 | Intensive | HS10 Economics | 2 |
| 1,2,3 | Intensive | SS04 Lifelong Sports Science Practicum (Swimming, Volleyball) | 1 |
| 1 | 3 | HS19 History and Culture of Aizu | 2 |
| 1 | 3 | JP01 Introductory Japanese I | 1 |
| 1 | 3 | MA01 Linear Algebra I | 2 |
| 1 | 3 | LI01 Computer Literacy | 4 |
| 1 | 3 | LI03 Guidance of Computer Science and Engineering | 2 |
| 1 | 3 | LI08 Information Ethics | 2 |
| 1 | 4 | JP02 Introductory Japanese II | 1 |
| 1 | 4 | MA03 Calculus I | 2 |
| 1 | 4 | NS01 Dynamics | 2 |
| 1 | 4 | PL01 Introduction to Programming | 4 |
| 1,2 | Intensive | HS26 Venture Business Management | 2 |
| 1,2 | Intensive | HS11 Sociology | 2 |
| 2 | 1 | JP07 Business Japanese | 2 |
| 2 | 1 | MA05 Fourier Analysis | 2 |
| 2 | 1 | MA07 Probability and Statistics | 2 |
| 2 | 1 | NS03 Quantum Mechanics | 2 |
| 2 | 1, 2 | LI13 CSE Exercise I | 3 |
| 2 | 1 | PL03 JAVA Programming I | 4 |
| 2 | 2 | NS05 Thermodynamics and Statistical Mechanics | 2 |
| 2 | 2 | FU03 Discrete Systems | 3 |
| 2 | 2 | FU15 Introduction to Data Management | 3 |
| 2 | 3 | JP05 Advanced Japanese I | 2 |
| 2 | 3 | NS04 Semiconductor Devices | 2 |
| 2 | 3 | LI11 Intro. to Computer Networking | 2 |
| 2 | 3, 4 | LI14 CSE Exercise II | 3 |
| 2 | 3 | FU04 Logic Circuit Design | 4 |
| 2 | 4 | JP06 Advanced Japanese II | 2 |
| 2 | 4 | MA06 Complex Analysis | 2 |
| 2 | 4 | LI10 Introduction to Multimedia Systems | 2 |
| 2 | 4 | FU06 Operating Systems | 4 |
| 2 | 4 | FU08 Automata and Languages | 3 |
| 1,2 | 3 | SS04 Lifelong Sports Science Practicum (Yoga) | 1 |
| 1,2,3 | Intensive | SS04 Lifelong Sports Science Practicum (Ski, Snowboarding) | 1 |

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| 3 | 1 | EL01 | Elective English 1 | 2 |
| 3 | 1 | EL02 | Elective English 2 | 2 |
| 3 | 1 | EL03 | Elective English 3 | 2 |
| 3 | 1 | PL06 | Java Programming II(SE-DE) | 3 |
| 3 | 1 | FU05 | Computer Architecture | 4 |
| 3 | 1 | FU14 | Intro. to Software Engineering | 3 |
| 3 | 1 | IT08 | Signal Processing and Linear System(CS)(SY)(IT-SPR) | 4 |
| 3 | 1 | IT10 | Geometry for Visual Computing(IT-CMV) | 3 |
| 3 | 1, 2 | IE01 | Integrated Exercise for Systems I(CS)(SY)(CN)(IT-SPR)(IT-CMV)(SE-DE) | 3 |
| 3 | 1, 2 | IE03 | Integrated Exercise for Software I(CS)(SY)(CN)(IT-SPR)(IT-CMV)(SE-DE) | 3 |
| 3 | 2 | EL01 | Elective English 1 | 2 |
| 3 | 2 | EL02 | Elective English 2 | 2 |
| 3 | 2 | EL03 | Elective English 3 | 2 |
| 3 | 2 | MA08 | Applied Algebra(CS)(IT-SPR)(IT-CMV) | 2 |
| 3 | 2 | FU09 | Algorithms and Data Structures II(CS)(SY)(CN)(IT-SPR)(IT-CMV)(SE-DE) | 3 |
| 3 | 2 | SY07 | Advanced Logic Circuit Design(SY) | 3 |
| 3 | 2 | CN02 | Network Security(CN) | 3 |
| 3 | 2 | IT02 | Computer Graphics(CS)(IT-SPR)(IT-CMV) | 3 |
| 3 | 2 | SE01 | Web Engineering(SE-DE) | 3 |
| 3 | 2 | SE07 | Introduction to Data Science with Python(SE-DE) | 3 |
| 3 | 3 | EL01 | Elective English 1 | 2 |
| 3 | 3 | EL02 | Elective English 2 | 2 |
| 3 | 3 | EL03 | Elective English 3 | 2 |
| 3 | 3 | MA10 | Introduction to Topology | 2 |
| 3 | 3 | PL04 | C++ Programming(CS)(IT-SPR)(IT-CMV)(SE-DE) | 3 |
| 3 | 3 | FU02 | Information Theory and Data Compression(CS)(CN)(IT-SPR)(IT-CMV) | 3 |
| 3 | 3 | SY05 | Parallel Computer System(SY) | 3 |
| 3 | 3 | CN03 | Network Programming(CN) | 3 |
| 3 | 3 | IT01 | Artificial Intelligence(IT-SPR)(IT-CMV) | 4 |
| 3 | 3 | SE08 | Introduction to Big Data Analytics(SE-DE) | 3 |
| 3 | 3, 4 | IE02 | Integrated Exercise for Systems II(CS)(SY)(CN)(IT-SPR)(IT-CMV)(SE-DE) | 3 |
| 3 | 3, 4 | IE04 | Integrated Exercise for Software II(CS)(SY)(CN)(IT-SPR)(IT-CMV)(SE-DE) | 3 |
| 3 | 4 | EL01 | Elective English 1 | 2 |
| 3 | 4 | EL02 | Elective English 2 | 2 |
| 3 | 4 | EL03 | Elective English 3 | 2 |
| 3 | 4 | MA11 | Applied Geometry and Topology | 2 |
| 3 | 4 | FU11 | Numerical Analysis(CS)(IT-SPR)(IT-CMV) | 3 |
| 3 | 4 | CN04 | Wireless Networking(CN) | 2 |
| 3 | 4 | CN05 | Computer and Network System Modeling and Simulation(CN) | 3 |
| 3 | 4 | IT11 | Information Retrieval and Natural Language Processing(CS)(IT-SPR) | 3 |
| 3 | 4 | SE04 | Advanced Software Engineering(SE-DE) | 3 |
| 3 | 4 | SE06 | Concurrent and distributed computing(SE-DE) | 3 |
| 4 | 1, 2 | EN08 | Thesis Writing and Presentation | 1 |
| 4 | 1 | FU10 | Language Processing Systems | 3 |
| 4 | 1 | IT05 | Robotics and Automatic Control(IT-CMV) | 3 |
| 4 | 1 | IT06 | Human Interface and Virtual Reality(IT-SPR)(IT-CMV) | 3 |
| 4 | 1, 2 | SE05 | Software Studio(SE-DE) | 3 |
| 4 | 1 | IT09 | Sound and Audio Processing(IT-SPR) | 3 |
| 4 | 2 | IT03 | Image Processing(IT-SPR)(IT-CMV) | 3 |