Course List (Specialized Courses)

## (For students who will remain enrolled therein after AY2018 onwards)

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

OT09 Extracurricular Activity Course I

OT10 Extracurricular Activity Course II

GT01 Graduation Thesis

Graduation Thesis (GT)

Completion of University of Aizu Graduate School Studies. X2 To take two courses out of Integrated Exercise Fields
CS Computer Science
SY Computer Systems
CN Computer Network Systems

●1 each

●2 each

Open in AY2018 only IT(SPR,CMV) Information Technologies Not open in AY2018 **※**4 SE-DE Software Engineering Required Number of Credits for Graduation is allowed up to atotal of 4 credits Standard Year of Course Completion (num. of slots) 50min/slot Classification of Courses Note(2) Academic Credits 
 1st year
 2nd Year
 3rd year
 4th Year

 S1
 S2
 S1
 S2
 S1
 S2
 (Categories) pening Class in CN IT-SP IT-CM SE-DE Course Name Requi Elective Optione Sub-category Q1 Q2 Q3 Q4 gory (Retake) MA01 Linear Algebra I MA02 Linear Algebra II 6(Q3/4)Q1 6 (Q1/2) MA03 Calculus I 6(Q3/4)MA04 Calculus II MA05 Fourier Analysis **Mathematics** MA06 Complex Analysis MA07 Probability and Statistics 0 0 MA08 Applied Algebra × 4 MA09 Mathematical Logic MA10 Introduction to Topology%4 MA11 Applied Geometry and Topology NS01 Dynamics Q3 NS02 Electromagnetism NS03 Quantum Mechanics Natural Science NS04 Semiconductor Devices NS05 Thermodynamics and Statistical Mechanics NS07 Introduction to Optoelectronics 34 LI01 Computer Literacy 4 LI03 Guidance of Computer Science and Engineering LI04 Introduction to Computer Systems LI06 Information Security 4 LI07 Information and Occupations Computer Fundamentals LI08 Information Ethics LI09 Fundamentals of System Development and Project Management LI10 Introduction to Multimedia Systems LI11 Introduction to Computer Network LI12 Creativity Studio LI13 CSE Exercise I 3 (S) LI14 CSE Exercise II PL01 Introduction to Programming PL02 C Programming Programming Languages PL03 Java Programming I PL04 C++ Programming × 4 0 0 0 PL05 Computer Languages PL06 Java Programming II FU01 Algorithms and Data Structures I F01 Algorithms and Data Structures(Interim) × 3 FU02 Information Theory and Data Compression※4 0 0 0 FU03 Discrete Systems FU04 Logic Circuit Design FU05 Computer Architecture Foundations of FU06 Operating Systems Computer Science F07 Database Systems(Interim)※3 Applicants must be enrolled before 2015. FU08 Automata and Languages F08 Automata and Languages(Interim)

3 FU09 Algorithms and Data Structures II 0 0 0 0 0 FU10 Language Processing Systems 6 FU11 Numerical Analysis 0 0 С FU14 Introduction to Software Engineering FU15 Introduction to Data Management SY02 Electronics 4 4 4 SY04 Embedded Systems S04 Embedded Systems(Interim)※3 Computer Systems SY05 Parallel Computer Systems SY06 VLSI Design SY07 Advanced Logic Circuit Design 0 CN02 Network Security CN03 Network Programming Computer Network N03 Computer Network Organization and Design 6 CN04 Wireless Networking 0 CN05 Computer and Network System Modeling and Simulation IT01 Artificial Intelligence 0 0 4 IT02 Computer Graphics 0 0 6 IT03 Image Processing 0 0 A04 Biomedical Intormation Thechnology(Interim)

3 0 0 IT05 Robotics and Automatic Control 3 Applications IT06 Human Interface and Virtual Reality 0 0 IT08 Signal Processing and Linear System 0 IT09 Sound and Audio Processing 0 0 IT10 Geometory for Visual Computing 0 IT11 Information Retrieval and Natural Language Processing SE01 Web Engineering SE02 Web Data Modeling Software Engineering SE04 Advanced Software Engineering SE05 Software Studio 3 (S) SE06 Concurrent and distributed systems SE07 Database Systems It will become SE courses from AY2018. It is not included in the minimum requested number of categories of Attachment 3 FU subjects. IE01 Integrated Exercise for Systems I O O O 0%2 O%2 O 3 (S) IE02 Integrated Exercise for Systems II Integrated Exercise(IE) 3 (S) IE03 Integrated Exercise for Software I O O O 0%2 O%2 O IE04 Integrated Exercise for Software II O O O 0%2 O%2 O 3 (S) OT01 Basic Knowledge Course on Starting Up Ventures I,II OT02 Factories for Experiencing Starting Up Ventures ①~④ 2(S) 1 each 2(S) 4(Int) OT04 Courses for the Information Technology Examination 2 (S) OT05 Career Design I OT06 Career Design II 2 (S) OT07 Graduate School Courses 💥 **X**1 OT08 TOEIC Preparation Course 1~4 1 each

2(Int)

4(Int)