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Course Number	Course Title	Text Ref.	CallNumber	Book Title	Author / Editor	Note
I111	Algorithms and Data Structures	Text	C42.1/ A	Theory of Algorithms (in Japanese) → アルゴリズム論	T. Asano, K. Wada, T. Masuzawa	
		Text	C42.1/ U	First Course in Algorithms Through Puzzles	R. Uehara	Available as e-book https://doi.org/10.1007/978-981-13-3188-6
I112	Basics of Computer Systems	Ref.	C44.2/Y99	User's UNIX (in Japanese) → ユーザーズUNIX	N. Saitoh (ed.)	
		Ref.	C44.2/ L	Learning GNU Emacs [3rd ed]	Debra Cameron et al.	
		Ref.	C46.1/ O	LaTeX2e [5th ed] (in Japanese) → LaTeX2e美文書作成入門	H. Okumura	
		Ref.	C44.2/ K	The UNIX Programming Environment	B. W. Kernighan	
I114	Fundamental Mathematics for Information Science	Ref.	410.3/ A	Calculus : Schaum's Outline [6th Edition]	Frank Ayres, Jr. and Elliot Mendelson	
		Ref.	410.3/ M / 1	Calculus [2nd ed] <vol.1 >	Jerrold Marsden and Alan Weinstein	
		Ref.	410.4/ R	The Principles of Mathematical Analysis [3rd edition, international ed]	Walter Rudin	
I115	Digital Logic and Computer Design	Text	C31.3/ H	Computer Organization and Design - The Hardware/Software Interface [MIPS, 5th ed]	David A. Patterson and John L. Hennessy	
		Ref.	C31.3/ H	Digital Design and Computer Architecture [2nd ed]	David Money Harris and Sarah L. Harris	Available as e-book https://www.sciencedirect.com/science/book/9780123944245
I116E	Fundamentals of Programming (E)	Ref.	C51.2/ S	Problem Solving & Programming Concepts [9th ed]	Maureen Sprankle and Jim Hubbard	
		Ref.	C41.8/ L	Introduction to Programming Using Python	Y. Daniel Liang	
		Ref.	C41.8/ Z	Python Programming: An Introduction to Computer Science [3rd ed]	John Zelle	
		Ref.	C41.8/ S	An Introduction to Programming Using Python [Global ed]	David I. Schneider	
I119	Statistics for Data Analytics	Ref.	412.5/ J	Statistics : Principles and Methods [7th ed]	Johnson R.A., Bhattacharyya G.K.	
		Ref.	410.9/ A	Linear Algebra Done Right [3rd ed]	Axler, S.	
		Ref.	410.2/ K	楽しもう！数学を：高校数学への再挑戦	河添健、林邦彦	
		Ref.	410.2/ H	直観でわかる数学	畑村洋太郎	
		Ref.	412.5/ T	統計学入門 (基礎統計学 : 1)	東京大学教養学部統計学教室 (編集)	
		Ref.	412.5/ I	数理統計学 [改訂版]	稲垣宣生	
		Ref.	411.1/ F	確率と確率過程 (金融工学の基礎 : 3)	伏見正則	
I120	Fundamentals of Logic and Mathematics	Ref.	C22.3/ N	Logic and Set (in Japanese) → ろんりと集合	N. Nakauchi	
		Ref.	C22.3/ T	Techniques of Logical Analysis for Information Science (in Japanese) → 情報科学のための論理分析テクニック	S. Toda	
		Ref.	C22.4/ M	Introduction to Sets (in Japanese) → 集合序説	N. Motohashi	
I211E	Mathematical Logic(E)	Text	C22.3/ D	Logic and Structure [4th ed]	Dirk van Dalen	
I212	Analysis for Information Science	Ref.	C53.1/ O	Signals and Systems [2nd ed]	Alan Oppenheim, Alan Willsky	
I214	System Optimization	Ref.	C23.1/ F	Algorithmic Principles of Mathematical Programming	Ulrich Faigle, W. Kern, G. Still	
		Ref.	412.6/ O	TokyoTech Be-TEXT Mathematical Programming (in Japanese) → 数理計画法	W. Ogata	
		Ref.	412.6/ Y	Mathematical Programming (IEICE Lecture Series : C-4) (in Japanese) → 数理計画法	N. Yamashita, M. Fukushima	
		Ref.	412.6/ Y	Foundation of Engineering Optimization and its applications (in Japanese) → 工学基礎 最適化とその応用	H. Yabe	
		Ref.	412.6/ F	Introduction to Mathematical Programming (System-Control-Information Library : 15) (in Japanese) → 数理計画入門	M. Fukushima	
I218	Computer Architecture	Text	C31.3/ H	Computer Organization and Design -- The Hardware/Software Interface [5th ed]	David A.Patterson and John L.Hennessy	
I225E	Statistical Signal Processing(E)	Ref.	411.1/ P	Probability, random variables, and stochastic processes [3rd ed.]	A. Papoulis	
		Ref.	C53.1/ K	Estimation theory (Fundamentals of Statistical Signal Processing : 1)	Steven M. Kay	
I232E	Information Theory(E)	Text	C21.1/ C	Elements of Information Theory [2nd ed]	Thomas Cover and Joy Thomas	Available as e-book https://onlinelibrary.wiley.com/book/10.1002/047174882X
I233	Operating Systems	Text	C44.1/ T	Modern Operating Systems [2nd ed.]	Andrew S. Tanenbaum	
		Text	C44.1/ T	Modern Operating Systems [2nd ed., International ed.]	Andrew S. Tanenbaum	
		Text	C44.1/ S	Operating System Concepts [8th ed.]	Abraham Silberschatz, Peter Baer Galvin, Greg Gagne	
I235	Game Informatics	Ref.	C53.3/ B	Pattern Recognition and Machine Learning	Christopher M. Bishop	

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Course Number	Course Title	Text Ref.	CallNumber	Book Title	Author / Editor	Note
		Ref.	C51 / Y	Artificial Intelligence and Games	Georgios N. Yannakakis and Julian Togelius	Available as e-book https://doi.org/10.1007/978-3-319-63519-4
I237	Formal Languages and Automata	Ref.	C23.2/ K	Automata and Computability	Dexter C. Kozen	
		Ref.	C23.2/ H	Introduction to Automata Theory, Languages, and Computation [3rd ed]	J. E. Hopcroft, R. Motowani, J. D. Ullman	
		Ref.	C23.2/ S	Introduction to the Theory of Computation [3rd, international ed]	M. Sipser	
		Ref.	C23.2/ S	Introduction to the Theory of Computation [3rd ed]	M. Sipser	
I238E	Computation Theory(E)	Text	C23.2/ S	Introduction to the Theory of Computation [3rd, international ed]	M. Sipser	