

Course Number	Course Title	Text Ref.	CallNumber	Book Title	Author / Editor	Note
I111	Algorithms and Data Structures	Text	C42.1/ A /	<a href="#">Theory of Algorithms (in Japanese)→アルゴリズム論</a>	Asano, Wada, Masuzawa	
		Text	C42.1/ U /	<a href="#">Introduction to Algorithms (in Japanese)→はじめてのアルゴリズム</a>	Uehara	
I112	Basics of Computer Systems	Ref.	C44.2/Y99/	<a href="#">User's UNIX (in Japanese)→ユーザーズUNIX</a>	N. Saitoh (ed.)	
		Ref.	C44.2/ L /	<a href="#">Learning GNU Emacs [3rd ed.]</a>	Debra Cameron et al.	
		Ref.	C46.1/ O /	<a href="#">LaTeX2e [ 5th ed.] (in Japanese)→LaTeX2e美文書作成入門 [改訂第5版]</a>	H. Okumura	
		Ref.	C44.2/ K /	<a href="#">The UNIX Programming Environment</a>	B. W. Kernighan	
I115	Digital Logic and Computer Design	Text	C31.3/ H /	<a href="#">Computer Organization and Design : The Hardware/Software Interface [5th ed.]</a>	David A. Patterson and John L. Hennessy	
		Ref.	C31.1/ N /	<a href="#">電子計算機概論 [第2版]</a>	新保 利和、松尾 守之 共著	
I118	Graphs and Automata	Text	C23.2/ K /	<a href="#">Automata and Computability</a>	Dexter Kozen	
		Ref.	C22.3/ V /	<a href="#">How To Prove It: A Structured Approach [2nd ed.]</a>	D.J. Velleman	
		Ref.	412.4/ W /	<a href="#">Introduction to Graph Theory [4th ed.]</a>	R.J. Wilson	
		Ref.	C23.2/ H /	<a href="#">Introduction to Automata Theory, Languages, and Computation [3rd ed.]</a>	J. Hopcroft, R. Motwani, and J. Ullman	
I119	Statistics for Data Analytics	Ref.	412.5/ J /	<a href="#">Statistics Principles and Methods [7th Edition]</a>	Johnson R.A., Bhattacharyya G.K.	
		Ref.	410.9/ A /	<a href="#">Linear Algebra Done Right [3rd edition]</a>	Axler, S.	
		Ref.	410.2/ K /	<a href="#">楽しもう！数学を</a>	河添健、林邦彦	
		Ref.	410.2/ H /	<a href="#">直観でわかる数学</a>	畑村洋太郎	
		Ref.	412.5/ T /	<a href="#">統計学入門</a>	東京大学教養学部統計学教室 (編集)	
		Ref.	412.5/ I /	<a href="#">数理統計学 [改訂版]</a>	稲垣宣生	
		Ref.	411.1/ F /	<a href="#">確率と確率過程 (金融工学の基礎3)</a>	伏見正則	
I120	Fundamentals of Logic and Mathematics	Ref.	C22.3/ N /	<a href="#">Logic and Set (in Japanese)→ろんりと集合</a>	N. Nakauchi	
		Ref.	C22.3/ T /	<a href="#">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</a>	S. Toda	
		Ref.	C22.4/ M /	<a href="#">Introduction to Sets (in Japanese)→集合序説</a>	N. Motohashi	
I211E	Mathematical Logic(E)	Text	C22.3/ D /	<a href="#">Logic and Structure [4th ed.]</a>	Dirk van Dalen	
I212	Analysis for Information Science	Ref.	C53.1/ O /	<a href="#">Signals and Systems</a>	Alan Oppenheim, Alan Willsky	
I214	System Optimization	Ref.	C23.1/ F /	<a href="#">Algorithmic Principles of Mathematical Programming</a>	Ulrich Faigle, W. Kern, G. Still	
		Ref.	412.6/ O /	<a href="#">Mathematical Programming (TokyoTech Be-TEXT) (in Japanese)→数理計画法 (TokyoTech Be-TEXT)</a>	W. Ogata	
		Ref.	412.6/ Y /	<a href="#">Mathematical Programming (IEICE Lecture Series C-4) (in Japanese)→数理計画法 (電子情報通信レクチャーシリーズ C-4)</a>	N. Yamashita, M. Fukushima	
		Ref.	412.6 / Y /	<a href="#">Foundation of Engineering Optimization and its applications (in Japanese)→最適化とその応用 : 工学基礎</a>	H. Yabe	
		Ref.	412.6/ F /	<a href="#">Introduction to Mathematical Programming (System-Control-Information Library 15) (in Japanese)→数理計画入門 (システム制御情報ライブラリー15)</a>	M. Fukushima	
I216	Computational Complexity and Discrete Mathematics	Text	C23.2/ S /	<a href="#">Introduction to the Theory of Computation [2nd ed]</a>	Michael Sipser	
		Text	C21.2/ M /	<a href="#">Cryptography in Algebraic Aspects (in Japanese)→代数学から学ぶ暗号理論</a>	Atsuko Miyaji	
		Ref.	C22.6/W46/	<a href="#">Introduction to Computability and Computational Complexity (in Japanese)→計算可能性・計算の複雑さ入門</a>	Osamu Watanabe	
		Ref.	C21.2/ J /	<a href="#">Information Security (IT Text) (in Japanese)→情報セキュリティ(IT Text )</a>	Atsuko Miyaji and Hiroaki Kikuchi	
I218E	Computer Architecture(E)	Text	C31.3/ H /	<a href="#">Computer Organization and Design -- The Hardware/Software Interface [5th Edition]</a>	David A.Patterson and John L.Hennessy	
I225E	Statistical Signal Processing(E)	Ref.	411.1/ P /	<a href="#">Probability, random variables, and stochastic processes [3rd ed]</a>	A. Papoulis	
		Ref.	C53.1/ K /	<a href="#">Estimation theory (Fundamentals of Statistical Signal Processing v.1)</a>	Steven M. Kay	
I233	Operating Systems	Text	C44.1/ T /	<a href="#">Modern Operating Systems [2nd ed.]</a>	Andrew S. Tanenbaum	
		Text	C44.1/ T /	<a href="#">Modern Operating Systems [2nd ed.]</a>	Andrew S. Tanenbaum	
		Text	C44.1/ S /	<a href="#">Operating System Concepts [8th ed.]</a>	Abraham Silberschatz, Peter Baer Galvin, Greg	
I235	Game Informatics	Ref.	C53.3/ B /	<a href="#">Pattern Recognition and Machine Learning</a>	Bishop	
		Ref.	C51 / C /	<a href="#">Chips Challenging Champions: Games, Computers and Artificial Intelligence</a>	Schaeffer and Herik	

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Course Number	Course Title	Text Ref.	CallNumber	Book Title	Author / Editor	Note
I236	Logical Inference and Knowledge Representation	Ref.	C51 / G /	<a href="#">Logical Foundations of Artificial Intelligence</a>	Michael R. Genesereth and Nils J. Nilsson	
		Ref.	C51 / G /	<a href="#">Logical Foundations of Artificial Intelligence</a>	Michael R. Genesereth and Nils J. Nilsson	
		Ref.	C51 / S /	<a href="#">Artificial Intelligence Techniques in Prolog</a>	Yoav Shoham	
		Ref.	C51 / D /	<a href="#">The Description Logic Handbook: Theory, Implementation and Applications</a>	Franz Baader, Diego Calvanese, Deborah L.	
I655E	Modern Quantum and Neural Computation(E)	Ref.	412.2/ R /	<a href="#">Mathematical Methods for Physics and Engineering [3rd Edition]</a>	Ken F. Riley, Mike P. Hobson, Stephen J. Bence	
		Ref.	C23.2/ M /	<a href="#">Quantum Computer Science: An Introduction</a>	N. David Mermin	