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Course Number	Course Title	Text Ref.	CallNumber	Book Title	Author / Editor	Note
I211	Mathematical Logic	Ref.	C22.3/ D /	Logic and Structure [Fourth Edition]	Dirk van Dalen	
I212E	Analysis for Information Science(E)	Ref.	C53.1/ O /	Signals and Systems [Second Edition]	A. Oppenheim, A. Willsky, and S. Nawab	
I214E	System Optimization(E)	Ref.	C23.1/ F /	Algorithmic Principles of Mathematical Programming	Ulrich Faigle, W. Kern, G. Still	
		Ref.	412.6/ O /	Mathematical Programming (TokyoTech Be-TEXT) (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 (電子情報通信レクチャーシリーズ C-4)	N. Yamashita, M. Fukushima	
		Ref.	412.6/ Y /	Foundation of Engineering Optimization and its applications (in Japanese)→最適化とその応用: 工学基礎	H. Yabe	
		Ref.	412.6/ F /	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)	M. Fukushima	
I216E	Computational Complexity and Discrete Mathematics(E)	Text	C23.2/ S /	Introduction to the Theory of Computation [2nd ed.]	Michael Sipser	
		Text	C21.2/ M /	Cryptography in Algebraic Aspects (In Japanese)→代数学から学ぶ暗号理論	Atsuko Miyaji	
		Ref.	C22.6/W46/	Introduction to Computability and Computational Complexity (In Japanese)→計算可能性・計算の複雑さ入門	Osamu Watanabe	
		Ref.	C21.2/ J /	Information Security (IT Text) (In Japanese)→情報セキュリティ(IT Text)	Atsuko Miyaji and Hiroaki Kikuchi	
I217E	Functional Programming(E)	Ref.		CafeOBJ official homepage		Available on the web http://cafeobj.org/
		Ref.	C42.1/ T /	Haskell: the Craft of Functional Programming [3rd Edition]	S. Thompson	
		Ref.	C23.1/ B /	Term Rewriting and All That	F. Baader and T. Nipkow	
I218	Computer Architecture	Text	C31.3/ H /	Computer Organization and Design : The Hardware/Software Interface [5th Edition]	David A.Patterson and John L.Hennessy	
I223	Natural Language Processing I	Text	C45.1/ I /15	Shizen Gengo Shori (in Japanese)→自然言語処理	Makoto Nagao et al.	
		Ref.	C52.1/ A /	Natural Language Understanding [2nd Edition]	J. Allen	
		Ref.	C52.1/To27/	Shizen Gengo Shori Nyumon (in Japanese) →自然言語処理入門	Satoshi Tojo	
		Ref.	C52.1/ S /	Shizen Gengo Shori: Kiso to Oyo (in Japanese) →自然言語処理: 基礎と応用	Hozumi Tanaka ed.	
I225	Statistical Signal Processing	Ref.	411.1/ P /	Probability, random variables, and stochastic processes	A. Papoulis	
		Ref.	C53.1/ K /	Estimation theory (Fundamentals of Statistical Signal Processing. vol.1)	Steven M. Kay	
		Ref.	C53.1/ K /	Detection theory (Fundamentals of Statistical Signal Processing. vol.2)	Steven M. Kay	
I233E	Operating Systems(E)	Text	C44.1/ S /	Operating System Concepts [8th ed.]	Abraham Silberschatz, Peter Baer Galvin, Greg	
		Ref.	C44.1/ T /	Modern Operating Systems [4th ed., global ed.]	Andrew S. Tanenbaum, Herbert Bos	
I234	Foundation of Software Environment	Text	C41 / W /	The Formal Semantics of Programming Languages: An Introduction	Glynn Winskel	
		Ref.	C41 / P /	Types and Programming Languages	Benjamin Pierce	
I235E	Game Informatics(E)	Ref.	C51 / C /	Chips Challenging Champions: Games, Computers and Artificial Intelligence	Schaeffer and Herik	
		Ref.	C53.3/ B /	Pattern Recognition and Machine Learning	Bishop	
I427	System Control Theory	Ref.	C54.1/ K /	Introduction to Linear Control Systems (in Japanese)→線形システム制御入門	Hiroyuki Kajiwara	
		Ref.	C54.1/ O /	Linear Systems Control Theory (in Japanese)→線形システム制御理論	Akira Ohsumi	
		Ref.	C54.3/ S /	Robot Modeling and Control	Mark W. Spong, Seth Hutchinson, and M.	
I448	Distance Learning System	Ref.	375 / E / 1	Encyclopedia of Distance Learning. Volume 1 [2nd ed.]	C. Howard, P. L. Rogers, J. V. Boettcher, G. A. Berg,	
		Ref.	375 / E / 2	Encyclopedia of Distance Learning. Volume 2 [2nd ed.]	C. Howard, P. L. Rogers, J. V. Boettcher, G. A. Berg,	
		Ref.	375 / E / 3	Encyclopedia of Distance Learning. Volume 3 [2nd ed.]	C. Howard, P. L. Rogers, J. V. Boettcher, G. A. Berg,	
		Ref.	375 / E / 4	Encyclopedia of Distance Learning. Volume 4 [2nd ed.]	C. Howard, P. L. Rogers, J. V. Boettcher, G. A. Berg,	
		Ref.	R375 / K /	Encyclopedia of Educational Technology (in Japanese)→教育工学事典	Japan Society for Educational Technology	In Reference Books area (2F) <in-Library use only>
		Ref.	375 / K /	Handbook of Information and Systems in Education (in Japanese)→教育システム情報ハンドブック	Japanese Society for Information and Systems in	
		Ref.	C51.1/ U /	e-Learning in Knowledge Society (in Japanese)→知識社会におけるeラーニング	Maomi Ueno	

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Course Number	Course Title	Text Ref.	CallNumber	Book Title	Author / Editor	Note
I466	Introduction to International Standardization	Ref.	C33 / J /	Communication and Standardization : Telecom, Internet, and NGN(in Japanese)→情報通信と標準化 ― テレコム・インターネット・NGN	TTC and Kouichi Asatani	
		Ref.		TTC texts for standadization	TTC	Available on the web http://www.ttc.or.jp/study_std/
		Ref.		Introduction to standardization practice	METI	Available on the web http://www.meti.go.jp/policy/standards_conformity/files/2015text_zenbun.pdf
I466S	Advanced Information Security Theory and Application	Text	C21.2/ M /	代数学から学ぶ暗号理論	宮地 充子	
		Ref.	C23.2/ A /	Computational Complexity : A Modern Approach	Sanjeev Arora and Boaz Barak	
I469	Advanced Algorithms for Computational Geometry	Text	C42.1/ C /	Introduction to Algorithms [3rd ed.]	Thomas H. Cormen, Charles E. Leiserson,	
		Ref.	C42.1/ U /	Introduction to Algorithm (in Japanese)→はじめてのアルゴリズム	Ryuhei Uehara	
		Ref.	410.8/ O /	How to Fold It	J. O'Rourke	