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Course Number	Course Title	Text Ref.	CallNumber	Book Title	Author / Editor	Note
I114	Fundamental Mathematics for Information Science	Ref.	410.9/ L /	Schaum's Outline of Calculus [6th Edition]	Frank Ayres, Jr. and Elliot Mendelson	
		Ref.	410.3/ M / 1	Schaum's Outline of Linear Algebra [5th Edition]	Seymour Lipschutz and Marc Lipson	
		Ref.	410.4/ L /	Calculus 1 [2nd ed]	Jerrold Marsden and Alan Weinstein	
		Ref.	410.9/ L /	Complex Analysis (4th edition)	Serge Lang	
		Ref.	C41.8/ G /	Introduction to Linear Algebra (2nd edition)	Serge Lang	
I116	Fundamentals of Programming	Ref.	C54.2/ C /	Introduction to Computation and Programming Using Python	John V. Guttag	
I213	Discrete Signal Processing	Ref.	C53.1/ O /	Linear System Theory and Design [3rd Edition]	Chi-Tsong Chen	
		Ref.	C53.1/ O /	Discrete-Time Signal Processing [3rd ed]	Alan V. Oppenheim, Ronald W. Schafer, John R. Buck	
I217	Functional Programming	Ref.	C41.3/ H /	CafeOBJ website: http://cafeobj.org/		http://cafeobj.org/
		Ref.	C42.3/ B /	Introduction to Programming using SML	M. Hanssen and H. Richel	
I219	Software Design Methodology	Ref.	C42.3/ R /	The Unified Modeling Language User Guide [2nd ed]	Grady Booch, et.al.	
		Ref.	C42.3/ F /	The Unified Modeling Language Reference Manual [2nd ed]	J.Rumbaugh, et.al.	
		Ref.	C45.2/ D /	UML Distilled: A Brief Guide to the Standard Object Modeling Language	M.Fowler	
		Ref.	C33.1/ A /	Design Patterns: Elements of Reusable Object-Oriented Software	Erich Gamma, et.al.	
		Ref.	C45.1/ I /15	Java Programming Language [4th ed]	K.Arnold, et.al.	
I223E	Natural Language Processing I(E)	Text	C52.1/ M /	Shizen Gengo Shori (in Japanese)→自然言語処理	Makoto Nagao et al.	
		Text	C52.1/ J /	Foundations of Statistical Natural Language Processing	Chris Manning and Hinrich Schütze	
		Text	C52.1/ A /	Speech and Language Processing [2nd edition]	Jurafsky and Martin	
		Ref.	C52.1/To27/	Natural Language Understanding (2nd Edition)	J. Allen	
		Ref.	C52.1/ S /	Shizen Gengo Shori Nyumon (in Japanese)→自然言語処理入門	Satoshi Tojo	
		Ref.	C33.1/ T /	Shizen Gengo Shori -- Kiso to Oyo-- (in Japanese)→自然言語処理：基礎と応用	Hozumi Tanaka ed.	
I226	Computer Networks	Text	C33.1/ S /	Computer Networks [5th Ed.]	A. S. Tanenbaum	
		Ref.	C33.1/ T /	Data and Computer Communications [9th Ed.]	W. Stallings	
		Ref.	C33.1/ S / 1	Basic Information Network (in Japanese)→情報ネットワークの基礎	Shuji Tasaka	
		Ref.	C33/ O /	The Protocols (TCP/IP Illustrated, Volume 1)	W. Richard Stevens	
		Ref.	C21.1/ C /	Introduction to Computer Network: TCP/IP Protocol Suite and Security (in Japanese)→コンピュータネットワーク入門：TCP/IPプロトコル群とセキュリティ	Masato Oguchi	
I232E	Information Theory(E)	Text	C45.1/ I / 5	Elements of Information Theory [Second Edition]	Thomas Cover and Joy Thomas	
I234E	Foundation of Software Environment(E)	Ref.	C42.2/ N /	Programming Language Processors (In Japanese)→プログラミング言語処理系	Masataka Sassa	
		Ref.	C42.2/ W /	Compiler Construction and Optimization (In Japanese)→コンパイラの構成と最適化	Ikuo Nakata	
		Ref.	C42.2/ M /	Compiler Design	Reinhard Wilhelm, et al.	
		Ref.	C44 / C /	Advanced Compiler Design and Implementation	Steven Muchnick	
I438	Exercises on Graph Theory	Ref.	412.4/ D /	Combinatorics and Graph Theory	J. M. Harris, J. L. Hirst, M. J. Mossinghoff	
		Ref.	C53.2/ F /	Graph Theory [3rd ed.]	R. Diestel	
I439	Speech Signal Processing	Ref.	C53.2/ R /	Speech analysis, synthesis and perception	Jim Flanagan	
		Ref.	C53.2/ A /	Fundamentals of Speech Recognition	Rabiner and Juang	
		Ref.	C33.1/ S / 1	Automatic Speech and Speaker Recognition ---- Advanced Topics ----	Chin-Hui Lee, Frank K. Soong, Kuldeep K. Paliwal,	
I441	Advanced Computer Networks	Ref.	C33.1/ T	TCP/IP Illustrated, Volume 1: The Protocols	W. R. Stevens	
		Ref.	C44.2/ R	Computer Networks (3rd Edition)	A. S. Tanenbaum	
I442	Advanced System Software Laboratory	Ref.	C44.2/ S	Advanced UNIX Programming (Addison-Wesley Professional Computing Series)	Mark J.Rochkind	

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		Ref.	C44.2/ D	Advanced Programming in the UNIX(R) Environment [3rd Edition]	W.R.Stevens,Stephen A.Stevens	
		Ref.	C44 / C /	The Design and Implementation of the 4.4 BSD Operating System	McKusick, Bostic, Karels, Quarterman	
		Ref.	C22 / H	System Software Programming: The Way Things Work	David L. Clarke, Donald Merusi	
I656E	Logical Decision Procedures(E)	Ref.	C51.6/ K	Logic in Computer Science: Modelling and reasoning about systems [Second Edition]	Huth and Ryan	
		Ref.	C51.6/ K	Decision Procedures	Kroening, Daniel, Strichman, and Ofer	