

Course #	Course Title	Text/Ref.	Call #	Title	Author / Editor	Publisher	Note
I111E	Algorithms and Data Structures (E)	Text	C42.1/ A	Theory of Algorithms (in Japanese) → アルゴリズム論	Asano, Wada, Masuzawa	Ohm Publishing Co., 2003	
		Text	C42.1/ U	First Course in Algorithms Through Puzzles	R. Uehara	Springer, 2019	
I116E	Fundamentals of Programming (E)	Ref.	C51.2/ S	Problem Solving & Programming Concepts [9th ed.]	Maureen Sprankle and Jim Hubbard	Pearson Education, 2012	
		Ref.	C41.8/ L	Introduction to Programming Using Python	Y. Daniel Liang	Prentice Hall, 2013	
		Ref.	C41.8/ Z	Python Programming: An Introduction to Computer Science [3rd ed.]	John Zelle	Franklin-Beedle, 2017	
		Ref.	C41.8/ S	An Introduction to Programming Using Python [Global ed.]	David I. Schneider	Pearson, 2016	
		Ref.	C41.8/ D	Python Programming for the Absolute Beginner [3rd ed.]	Michael Dawson	Course Technology, Cengage Learning, 2010	
I211	Mathematical Logic	Ref.	C41/ L	Specification of Abstract Data Types	Jacques Loeckx, Hans-Dieter Ehrich, Markus Wolf	Wiley, 1996	
I217E	Functional Programming (E)	Ref.	-	CafeOBJ	-	-	Available on the web http://cafeobj.org/
I223	Natural Language Processing	Ref.	C52.1/ S	Shizen Gengo Shori no Kiso (in Japanese)→自然言語処理の基礎	N. Okazaki et al.	Ohmsha, 2022	
		Ref.	C45.1/ I / 15	Shizen Gengo Shori (in Japanese)→自然言語処理 (岩波講座 ソフトウェア科学 ; 15)	M. Nagao et al.	Iwanami Publishers, 1996	
		Ref.	C52.1/ A	Natural Language Understanding [2nd ed.]	J. Allen	Benjamin/Cummings Publishing Company	
		Ref.	C52.1/ M	Foundations of Statistical Natural Language Processing	C.D. Manning and H. Schutze	MIT-press, 1999	
I225	Statistical Signal Processing	Ref.	411.1/ P	Probability, random variables, and stochastic processes [4th ed]	A. Papoulis, S. Unnikrishna Pillai	McGraw-Hill, 2002	
		Ref.	C531/ K	Estimation theory (Fundamentals of Statistical Signal Processing ; v.1)	Steven M. Kay	Prentice Hall, 1993	
I226E	Computer Networks (E)	Text	C33.1/ T	Computer Networks [5th ed.]	A. S. Tanenbaum, David J. Wetherall	Prentice Hall, 2011	
		Ref.	C33.1/ S	Data and Computer Communications [9th ed., international ed.]	W. Stallings	Pearson, 2011	
		Ref.	C33.1/ T	Basic Information Network (in Japanese) → 情報ネットワークの基礎 (情報システム工学 MKC ; 3)	Shuji Tasaka	Mathematical Engineering Inc., 2003	
		Ref.	C33.1/ S/ 1	The protocols (TCP/IP Illustrated ; v. 1)	W. Richard Stevens	Addison-Wesley Professional. 1994	
		Ref.	C33/ O	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 (Computer	Masato Oguchi	Computer Science Library, 2007	
I232	Information Theory	Text	C21.1/ U	An Illustrated Guide to Viewpoint of Information Theory (in Japanese) → イラストで学ぶ 情報理論の考え方	Tomohiko Uematsu	講談社, 2012	
		Ref.	C21.1/ C	Elements of Information Theory [2nd ed.]	Thomas Covers and Joy Thomas	Wiley, 2006	Only available from JAIST network https://onlinelibrary.wiley.com/book/10.1002/047174882
I237E	Formal Languages and Automata (E)	Ref.	C23.2/ K	Automata and Computability (Undergraduate texts in computer science)	Dexter C. Kozen	Springer, 1997	
		Ref.	C23.2/ H	Introduction to Automata Theory, Languages, and Computation [3rd ed.]	J. E. Hopcroft, R. Motowani, J. D. Ullman	Addison-Wesley, 2007	
I238E	Computation Theory (E)	Text	C23.2/ S	Introduction to the Theory of Computation [3rd ed]	M. Sipser	Cengage Learning, 2013	
I437E	Coding Theory (E)	Ref.	C21.1/ J	Iterative Error Correction : Turbo, Low-Density Parity-Check and Repeat-Accumulate Codes	Sarah Johnson	Cambridge University Press, 2010	
		Ref.	C21.1/ B	Algebraic Codes for Data Transmission	Richard Blahut	Cambridge University Press, 2003	
I443	Foundation of Software Verification	Ref.	C54.2/ H	The Spin Model Checker : Primer and Reference Manual	G.J.Holzmann	Addison-Wesley, 2004	
		Ref.	C23.1/ M	Mathematical Theory of Computation	Z.Manna	Dover Publications, 2003	
		Ref.	C42 / D	A Discipline of Programming (Prentice-Hall series in automatic computation)	E.W.Dijkstra	Prentice Hall, 1976	
		Ref.	C41 / W	The Formal Semantics of Programming Languages : an introduction (MIT Press series in the foundations of computing)	G.Winskel	The MIT Press, 1993	
I466	Introduction to International Standardization	Ref.	-	TTC texts for standadization	-	-	Available on the web https://www.ttc.or.jp/activities/sdt_text
		Ref.	-	Introduction to standardization practice	METI	-	Available on the web https://www.meti.go.jp/policy/economy/hyojun-kijun/katsuyo/jitsumonyumon/pdf/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 : 整数論の基礎から楕円曲線暗号の実装まで	宮地充子著	日本評論社, 2012	
		Text	C21.2/ J	情報セキュリティ (IT Text)	宮地充子、菊池浩明編著	オーム社, 2003	

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		Text	C45.2/ J	抽象によるソフトウェア設計 Alloyではじめる形式手法	Daniel Jackson著、今井健男 [ほか] 共訳	オーム社, 2011	
		Text	C41/ A	Advanced Topics in Types and Programming Languages	Benjamin C. Pierce編	The MIT Press, 2005	
I467	Processor Design Laboratory	Ref.	C31.3/ P	Computer Organization and Design : The Hardware/Software Interface [6th ed.]	David A.Patterson and John L.Hennessy	Morgan Kaufmann Pub., 2021	
I489	Advanced Lectures on Public-Key Cryptography	Ref.	-	A Graduate Course in Applied Cryptography	-	-	Available on the web https://toc.cryptobook.us/
		Ref.	C21.2/ P	A Decade of Lattice Cryptography (Foundations and trends in theoretical computer science ; 10:4)	Chris Peikert	now, 2016	Available on the web https://eprint.iacr.org/2015/939.pdf
I661E	Research Ethics for AI/Humans II(E)	Ref.	C51/ C	AI Ethics (The MIT Press essential knowledge series)	Mark Coeckelbergh	MIT Press, 2020	
I664E	Human AI Interaction II(E)	Ref.	-	Handbook of Human-Centered Artificial Intelligence[1st ed. 2026.]	Wei Xu	Springer Singapore, 2026	Only available from JAIST network https://link.springer.com/referencework/10.1007/978-981-95-3658-0
		Ref.	C51/ H	Human-Centered Artificial Intelligence: Research and Applications	Chang S. Nam, Jae-Yoon Jung, Sangwon Lee	Academic Press, 2022	
I665E	Human AI Interaction Exercise II(E)	Ref.	-	Handbook of Human-Centered Artificial Intelligence[1st ed. 2026.]	Wei Xu	Springer Singapore, 2026	Only available from JAIST network https://link.springer.com/referencework/10.1007/978-981-95-3658-0
		Ref.	C51/ H	Human-Centered Artificial Intelligence: Research and Applications	Chang S. Nam, Jae-Yoon Jung, Sangwon Lee	Academic Press, 2022	