

Course #	Course Title	Text/Ref.	Call #	Title	Author / Editor	Publisher	Note
I116	Fundamentals of Programming	Ref.	-	Python Website			Available on the web https://www.python.jp/
I213	Discrete Signal Processing	Ref.	C54.2/ C	Linear System Theory and Design [International 4th ed.]	Chi-Tsong Chen	Oxford University Press, 2013	
		Ref.	C53.1/ O	Discrete-Time Signal Processing [2nd Ed.]	Alan V. Oppenheim, Ronald W. Schafer, and John R. Buck	Prentice-Hall International (UK), 1989	
I217	Functional Programming	Ref.	-	CafeOBJ			Available on the web http://cafeobj.org/
I218	Computer Architecture	Ref.	C31.3/ P	Computer Organization and Design: The Hardware/Software Interface [6th ed.]	David A.Patterson and John L.Hennessy	Morgan Kaufmann, 2021	
I219	Software Design Methodology	Ref.	C42.3/ B	The Unified Modeling Language User Guide (The Addison-Wesley object technology series) [2nd ed.]	G. Booch, et.al	Addison-Wesley, 2005	
		Ref.	C42.3/ R	The Unified Modeling Language Reference Manual (The Addison-Wesley object technology series) [2nd ed.]	J. Rumbaugh, et.al	Addison-Wesley, 2005	
		Ref.	C42.3/ F	UML Distilled: A Brief Guide to the Standard Object Modeling Language (The Addison-Wesley object technology series) [3rd ed.]	M. Fowler	Addison-Wesley, 2004	
		Ref.	C45.2/ D	Design Patterns: Elements of Reusable Object-Oriented Software	E. Gamma, et.al	Addison-Wesley, 1995	
		Ref.	C33.1/A	The Java Programming Language (The Java series) [4th ed.]	K. Arnold, et.al	Addison-Wesley, 2006	
I226	Computer Networks	Text	C33.1/ T	Computer Networks [6th ed. global ed.]	Andrew S. Tanenbaum, Nick Feamster, David J. Wetherall	Pearson, 2021	
		Ref.	C33.1/ S	Data and Computer Communications [10th ed. international ed.]	W. Stallings	Peason Education, 2014	
		Ref.	C33.1/ T	Basic Information Network (in Japanese) → 情報ネットワークの基礎	Shuji Tasaka	SUURIKOUGAKU-SHA Co.,Ltd., 2003	
		Ref.	C33.1/ F / 1	The Protocols (TCP/IP Illustrated ; vol. 1) [2nd ed.]	K.R. Fall and W.R. Stevens	Addison-Wesley Professional, 2012	
		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	Masato Oguchi	SAIENSU-SHA Co.,Ltd., 2007	
I238	Computation Theory	Text	C23.2/ S	Introduction to the Theory of Computation [3rd ed.]	M. Sipser	Cengage Learning, 2013	
		Ref.	C23.2/ H	Introduction to Automata Theory, Languages, and Computation [3rd ed.]	John E. Hopcroft, Rajeev Motwani, and Jeffrey D. Ullman	Pearson Addison-Wesley, 2007	
I239	Machine Learning	Ref.	C53.3/ B	Pattern recognition and machine learning (Information science and statistics)	Christopher M. Bishop	Springer, 2006	
		Ref.	C51.3/ M	Machine Learning: A Probabilistic Perspective (Adaptive Computation and Machine Learning series) [4th printing]	Kevin P. Murphy	MIT press, 2012	
		Ref.	C51.3/ G	Deep Learning (Adaptive computation and machine learning)	Ian Goodfellow and Yoshua Bengio and Aaron Courville	MIT press, 2016	
I241EJ	Cybersecurity (EJ)	Text	C21.2/ C	ISC2 CISSP: Certified Information Systems Security Professional: Official Study Guide [10th ed.]	Mike Chapple, James Michael Stewart, Darril Gibson	Sybex/John Wiley & Sons, 2024	
I486S	Multi-Party Computation	Ref.	C21.2/ C	Secure Multiparty Computation and Secret Sharing	Ronald Cramer, Ivan Bjerre Damgård, and Jesper Buus Nielsen	Cambridge University Press, 2015	
		Ref.	-	R. Cramer, I. Damgaard. "Multiparty computation, an Introduction". Contemporary Cryptology. Birkhäuser Verlag, 2005. p.41-87			Only available from JAIST network http://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&db=nlabk&AN=2544131
		Ref.	-	Ben-Or, M.; Goldwasser, S.; Wigderson, A.; "Completeness Theorems for Non-Cyptographic Fault-Tolerant Distributed Computation". Proceedings of the Twentieth Annual ACM Symposium on Theory of Computing, Chicago, Illinois, May 2-4, 1988. 1988. p. 1-10.			Available on the web https://dl.acm.org/doi/pdf/10.1145/62212.62213
		Ref.	-	Cramer, Ronald; Damgaard, Ivan; Maurer, Ueli M.; "General Secure Multi-party Computation from any Linear Secret-Sharing Scheme". Advances in cryptology - EUROCRYPT 2000 : International Conference on the Theory and Application of Cryptographic Techniques, Bruges, Belgium, May 14-18, 2000 : proceedings. 2000. p. 316-334.			Only available from JAIST network https://link.springer.com/chapter/10.1007/3-540-45539-6_22
		Ref.	-	Cramer, Ronald; Damgaard, Ivan; Ishai, Yuval; "Share Conversion, Pseudorandom Secret-Sharing and Applications to Secure Computation". Theory of Cryptography : Second Theory of Cryptography Conference, TCC 2005, Cambridge, MA, USA, February 10-12, 2005. Proceedings. 2005. p342-362.			Only available from JAIST network https://link.springer.com/chapter/10.1007/978-3-540-30576-7_19
I493	Research ethics for AI/humans I	Ref.	C51/ C	AI Ethics (The MIT Press essential knowledge series)	Mark Coeckelbergh	MIT Press, 2020	

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I496	Human AI Interaction I	Ref.	-	Handbook of Human-Centered Artificial Intelligence	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	
I645E	Human Perceptual Systems and its Models (E)	Ref.	C51.4/ M	An Introduction to the Psychology of Hearing [5th ed.]	B. C. J. Moore	Emerald, 2004	
		Ref.	141.2/ P	The Sense of Hearing	C. J. Plack	Lawrence Erlbaum Associates, 2005	
I649E	Advanced Wireless Networks (E)	Text	C33/ G	Artificial Intelligence and Quantum Computing for Advanced Wireless Networks	Savo Glisic and Beatriz Lorenzo	Wiley, 2022	Only available from JAIST network https://onlinelibrary.wiley.com/doi/book/10.1002/9781119790327
		Ref.	C53.1/ P	Digital Communications [5th ed.]	John G. Proakis and Masoud Salehi	McGraw-Hill, 2008	
		Ref.	C54.1/ P	Contemporary Communication Systems using MATLAB [3rd ed.]	John G. Proakis, Masoud Salehi, and Gerhard Bauch	Cengage Learning, 2013	
I660E	Advanced Natural Language Processing (E)	Ref.	C52.1/ J	Speech & Language Processing : an introduction to natural language processing, computational linguistics, and speech recognition [2nd ed.]	Daniel Jurafsky, James H. Martin	Pearson/Prentice Hall , 2009	
		Ref.	C52.1/ J	Speech & Language Processing : an introduction to natural language processing, computational linguistics, and speech recognition [2nd ed.]	Daniel Jurafsky, James H. Martin	Pearson/Prentice Hall , 2009	