

Curriculum

Classification		Subject No.	Subject Name	Lecture:Lab: Credit (Homework)	Semester	Remark
Mandatory General Courses	Required	CC010	Special Lecture on Leadership	1:0:0(0)	Fall	
		CC020	Ethics and safety I	1AU	Spring/Fal	
	Choose 1	CC500	Scientific Writing	3:0:3(4)	Spring/Fal	
		CC510	Introduction to Computer Application	2:3:3(10)	Spring/Fall	
		CC511	Probability and Statistics	2:3:3(6)	Spring/Fall	
		CC513	Engineering Economy and Cost Analysis	3:0:3(6)	Fall	
CC530	Entrepreneurship and Business Strategies	3:0:3(6)	Fall			
Mandatory Major Courses		TE523	Info-com Design Lab	1:6:3(6)	Spring	*EE525
Elective (MS : 2 courses) (Ph.D : 3 courses, refer to course requirement)	TE503	Telecommunication Management	3:0:3(3)	Fall		
	TE504	Telecommunication Networks	3:0:3(6)	Spring		*EE520, *IE537 (Only approved for IE students)
	TE628	Internet Server	3:0:3(6)	Fall		*CS542
	TE630	Internet communication	3:1:3(6)	Spring/Fal		*CS540
	CS642	Distributed Processing Systems	3:0:3(6)	Spring		
Elective	TE520	Telecommunication Software Design	3:1:3(6)	Fall		*EE696
	TE526	Telephone and Internet Telephony Networks	3:0:3(6)	Fall		
	TE535	Networking Design and Programming I	3:1:3(6)	Spring		
	TE536	Networking Design and Programming II	3:1:3(6)	Fall		
	TE561	Teletraffic and Queueing Theory	3:0:3(4)	Spring		*IE633
	TE611	RF System Design	3:0:3(6)	Spring		
	TE620	Digital Informations Processing	3:0:3(6)	Fall		*EE628
	TE622	Broadband Networks	3:0:3(6)	Fall		*EE650
	TE624	Personal Communication Systems	3:0:3(6)	Fall		*EE624, *IE638
	TE626	Wireless Internet	3:0:3(6)	Fall		
	TE650	Telecommunication Network Optimization	3:1:3(4)	Spring		*IE535
	TE661	Network and Information Security	3:1:3(4)	Spring		
	TE673	Multimedia Services	3:0:3(6)	Spring		
	TE743	Network Management	3:1:3(4)	Fall		
	TE745	Service Platform	3:0:3(4)	Spring		
	TE764	Internet Terminal System	3:0:3(6)	Fall		
	TE800	Special Topics in Telecommunication	3:0:3(6)	-		
	MGT584	Process in Interne and its Analysis	3:0:3(4)	Spring		
	MGT534	Entrepreneurship and New Venture Creation	4:1:4(6)	Fall		
	EE421	Wireless Communication Systems	3:0:3(6)	Spring		M.S. course
	EE511	Computer Architecture	3:0:3(6)	Spring		*CS510
	EE512	System Programming	3:0:3(6)	Fall		*CS530 (CS Students must take the class as CS530)
EE522	Communication Theory	3:0:3(6)	Spring			
EE527	Data Communication	3:0:3(6)	Spring			
EE528	Engineering Random Processes	3:0:3(6)	Spring-Fall			
EE535	Digital Image Processing	3:0:3(6)	Spring			

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Elective	EE541	Electromagnetic Theory	3:0:3(6)	Spring		
	EE573	Introduction to VLSI Systems	3:0:3(6)	Spring		
	EE621	Coding Theory	3:0:3(6)	Spring		
	EE627	Performance Analysis of Communication Networks	3:0:3(6)	Spring		
	EE686	Optimization Theory	3:0:3(6)	Fall		
	CS420	Compiler Design	3:0:3(6)	Spring	M.S. course	
	CS500	Design and Analysis of Algorithm	3:0:3(6)	Spring	Theory	
	CS550	Software Engineering	3:0:3(4)	Spring	Software	
	CS560	Database System	3:0:3(6)	Spring		
	CS610	Parallel Processing	3:0:3(8)	Spring		
	CS662	Distributed Database	3:0:3(6)	Spring		
	IE531	Linear Programming	3:1:3(6)	Spring		
	IE539	Convex Optimization	3:1:3(6)	Fall		
	IE631	Integer Programming	3:1:3(6)	Fall		
	IE632	Stochastic Processes I	3:1:3(5)	Fall		
	IE637	Telecommunication Systems Optimization	3:1:3(3)	-		
	MAS550	Probability Theory	3:0:3(6)		*AM550	
MAS552	Queueing Theory with Applications	3:0:3(6)		*AM552		
MAS651	Stochastic Processes	3:0:3(6)		*AM551		
EE	Mandatory	EE505	Electronics Design Lab.	1:6:3(6)	Spring	
	Elective	EE432	Digital Signal Processing	3:0:3(6)	Spring/Fall	M.S. course
		EE520	Telecommunication Networks	3:0:3(6)	Spring	
		EE525	Networking Technology and Applications	1:6:3(6)	Spring	
		EE581	Linear Systems	3:0:3(6)	Spring	
		EE612	Discrete Event System Modeling and Simulation	3:0:3(6)	Fall	
		EE623	Information Theory	3:0:3(6)	Fall	
		EE624	Cellular Communication Systems and Protocols	3:0:3(6)	Fall	
		EE628	Visual Communication System	3:0:3(6)	Fall	
		EE631	Advanced Digital Signal Processing	3:0:3(6)	Spring	
		EE650	Optimization in Communication Networks	3:0:3(6)	Spring	
		EE652	Optical Communication	3:0:3(6)	Fall	
		EE694	Telephone and IP Telephony Networks	3:0:3(6)	Fall	
EE696	Telecommunication Software Design	3:1:3(6)	Fall			
EE731	Adaptive Signal Processing	3:0:3(6)	Spring			
CS	Elective (Essential)	CS510	Computer Architecture	3:0:3(6)	Spring	Computer Systems
		CS520	Theory of Programming Language	3:0:3(6)	Fall	Software
		CS522	Theory of Formal Languages and Automata	3:0:3(6)	Spring	Theory
		CS530	Operating System	3:0:3(6)	Spring/Fall	Computer Systems
		CS540	Network Architecture	3:0:3(9)	Spring/Fall	Computer Systems
		CS562	Database Design	3:0:3(6)	Fall	Software
		CS570	Artificial Intelligence and Machine Learning	3:0:3(6)	Spring/Fall	Software

※ Note: * stands for substitutable courses

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CS	Elective	CS441	Introduction to Computer Network	3:0:3(9)	Spring/Fall	M.S. course
		CS504	Computational Geometry	3:0:3(8)	Spring	
		CS542	Internet System Technology	3:0:3(9)	Fall	
		CS574	Natural Language Processing I	3:0:3(6)	Fall	
		CS580	Interactive Computer Graphics	3:1:3(5)	Spring	
		CS600	Graph Theory	3:0:3(6)	Fall	
		CS620	Theory of Compiler Construction	3:0:3(2)	Fall	
		CS650	Advanced Software Engineering	3:0:3(6)	Fall	
		CS655	System Modeling and Analysis	3:0:3(6)	Spring	
		CS710	Topics in Computation Architecture	3:0:3(6)	Spring/Fall	
		CS730	Topics in Operation Systems	3:0:3(6)	Spring/Fall	
		CS744	Topics in System Architecture	3:0:3(9)	Spring/Fall	
		CS760	Topics in Database System	3:0:3(6)	Spring/Fall	
IE	Elective	IE425	Project Management	3:1:3(4)	Spring	
		IE523	Production System Design	3:1:3(5)	Spring	
		IE532	Simulation and System Modeling	3:0:3(6)	Spring	
		IE535	Network Theory and Applications	3:1:3(4)	Spring	
		IE536	Scheduling Theory and Applications	3:0:3(4)	Fall	
		IE537	Business Telecommunication Systems	3:1:3(3)	Fall	
		IE538	Genetic Algorithms and Applications	3:1:3(3)	Fall	
		IE542	Regression Analysis: Theory and Practice	3:0:3(6)	Spring	
		IE633	Queueing Theory	3:0:3(6)	Spring	
		IE638	Wireless and Cellular Communication Systems	3:1:3(3)	Spring	
IE639	Supply Chain Optimization	3:0:3(4)	Fall			
MAS	Elective	MAS540	Real Analysis	3:0:3(6)		*AM541
		MAS541	Complex function Theory	3:0:3(6)		*AM542
		MAS546	Wavelets and Applications	3:0:3(6)		*AM546
		MAS555	Advanced Statistics	3:0:3(6)		*AM560
		MAS556	Time Series Analysis	3:0:3(6)		
		MAS557	Theory and Application of Machine Learning	3:0:3(6)		*AM521
		MAS560	Methods of Applied Mathematics	3:0:3(6)		*AM511
		MAS565	Numerical Analysis	3:0:3(6)		*AM520
		MAS641	Functional Analysis	3:0:3(6)		*AM641
		MAS647	Ordinary Differential Equations	3:0:3(6)		
		MAS650	Stochastic Differential Equations	3:0:3(6)		*AM650
		MAS655	Graphic Models in statistics	3:0:3(6)		*AM662
		MAS656	Multivariate Statistical Analysis	3:0:3(6)		*AM664
		MAS657	Computational Models of Neural Networks	3:0:3(6)		*AM621
Research		TE960	M.S. Thesis Research			
		TE980	Ph.D. Thesis Research			
		TE965	Individual (Project) for M.S. Student	0:6:2		
		TE985	Individual (Project) for Ph.D. Student	0:6:2		
		TE966	M.S. Seminar	1:0:1		
		TE967	M.S. Thesis Seminar	1:0:1		
		TE986	Ph.D. Seminar	1:0:1		