

## Curriculum

Classification		Subject No.	Subject Name	Lecture:Lab: Credit (Homework)	Semester	Remark
Mandatory General Courses	Mandatory	CC 010	Special Lecture on Leadership	1:0:0 (0)	Fall	
		CC 020	Ethics and safety I	1 A U	Spring/Fal	
	Choose 1	CC 500	Scientific Writing	3:0:3 (4)	Spring/Fal	
		CC 510	Introduction to Computer Application	2:3:3 (10)	Spring/Fall	
		CC 511	Probability and Statistics	2:3:3 (6)	Spring/Fall	
		CC 513	Engineering Economy and Cost Analysis	3:0:3 (6)	Fall	
	CC 530	Entrepreneurship and Business Strategies	3:0:3 (6)	Fall		
Mandatory Major Courses		TE 523	Info-com Design Lab	1:6:3 (6)	Spring	*EE525
Elective (MS : 2 courses)  (Ph.D : 3 courses, refer to course requirement)		TE 503	Telecommunication Management	3:0:3 (3)	Fall	*EE520
		TE 504	Telecommunication Networks	3:0:3 (6)	Spring	*IE537(Only Approved for IE students)
		TE 628	Internet Server	3:0:3 (6)	Fall	*CS542
		TE 630	Internet communication	3:1:3 (6)	Spring/Fal	*CS540
		CS 642	Distributed Processing Systems	3:0:3 (6)	Spring	
Elective		TE 520	Telecommunication Software Design	3:1:3 (6)	Fall	*EE696
		TE 526	Telephone and Internet Telephony Networks	3:0:3 (6)	Fall	
		TE 535	Networking Design and Programming I	3:1:3 (6)	Spring	
		TE 536	Networking Design and Programming II	3:1:3 (6)	Fall	
		TE 561	Teletraffic and Queuing Theory	3:0:3 (4)	Spring	*IE633
		TE 611	RF System Design	3:0:3 (6)	Spring	
		TE 620	Digital Informations Processing	3:0:3 (6)	Fall	*EE628
		TE 622	Broadband Networks	3:0:3 (6)	Fall	*EE650
		TE 624	Personal Communication Systems	3:0:3 (6)	Fall	*EE624, *IE638
		TE 626	Wireless Internet	3:0:3 (6)	Fall	
		TE 650	Telecommunication Network Optimization	3:1:3 (4)	Spring	*IE535
		TE 661	Network and Information Security	3:1:3 (4)	Spring	
		TE 673	Multimedia Services	3:0:3 (6)	Spring	
		TE 743	Network Management	3:1:3 (4)	Fall	
		TE 745	Service Platform	3:0:3 (4)	Spring	
		TE 764	Internet Terminal System	3:0:3 (6)	Fall	
		TE 800	Special Topics in Telecommunication	3:0:3 (6)	-	
		MGT 584	Process in Interne and its Analysis	3:0:3 (4)	Spring	
		MGT 534	Entrepreneurship and New Venture Creation	4:1:4 (6)	Fall	
		EE 421	Wireless Communication Systems	3:0:3 (6)	Spring	M.S. course
		EE 511	Computer Architecture	3:0:3 (6)	Spring	* CS510
		EE 512	System Programming	3:0:3 (6)	Fall	* CS530 (CS Students must take the class as CS530)
		EE 522	Communication Theory	3:0:3 (6)	Spring	
	EE 527	Data Communication	3:0:3 (6)	Spring		
	EE 528	Engineering Random Processes	3:0:3 (6)	Fall		
	EE 535	Digital Image Processing	3:0:3 (6)	Spring		

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Elective		EE 541	Electromagnetic Theory	3:0:3 (6)	Spring	
		EE 573	Introduction to VLSI Systems	3:0:3 (6)	Spring	
		EE 621	Coding Theory	3:0:3 (6)	Spring	
		EE 627	Performance Analysis of Communication Networks	3:0:3 (6)	Spring	
		EE 686	Optimization Theory	3:0:3 (6)	Fall	
		CS 420	Compiler Design	3:0:3 (6)	Spring	M.S. course
		CS 500	Design and Analysis of Algorithm	3:0:3 (6)	Spring	Theory
		CS 550	Software Engineering	3:0:3 (4)	Spring	Software
		CS 560	Database System	3:0:3 (6)	Spring	
		CS 610	Parallel Processing	3:0:3 (8)	Spring	
		CS 662	Distributed Database	3:0:3 (6)	Spring	
		IE 531	Linear Programming	3:1:3 (6)	Spring	
		IE 539	Convex Optimization	3:1:3 (6)	Spring	
		IE 631	Integer Programming	3:1:3 (6)	Fall	
		IE 632	Stochastic Processes I	3:1:3 (5)	Fall	
		IE 637	Telecommunication Systems Optimization	3:1:3 (3)	-	
		MAS 550	Probability Theory	3:0:3 (6)		*AM550
		MAS 552	Queueing Theory with Applications	3:0:3 (6)		*AM552
	MAS 651	Stochastic Processes	3:0:3 (6)		*AM551	
EE	Mandatory	EE 505	Electronics Design Lab.	1:6:3 (6)	Spring	
	Elective	EE 432	Digital Signal Processing	3:0:3 (6)	Fall	M.S. course
		EE 520	Telecommunication Networks	3:0:3 (6)	Spring	
		EE 525	Networking Technology and Applications	1:6:3 (6)	Spring	
		EE 581	Linear Systems	3:0:3 (6)	Spring	
		EE 612	Discrete Event System Modeling and Simulation	3:0:3 (6)	Fall	
		EE 623	Information Theory	3:0:3 (6)	Spring	
		EE 624	Mobile Communication Systems	3:0:3 (6)	Fall	
		EE 628	Visual Communication System	3:0:3 (6)	Fall	
		EE 631	Advanced Digital Signal Processing	3:0:3 (6)	Spring	
		EE 650	Optimization in Communication Networks	3:0:3 (6)	Fall	
		EE 652	Optical Communication	3:0:3 (6)	Fall	
		EE 694	Telephone and IP Telephony Networks	3:0:3 (6)	Fall	
		EE 696	Telecommunication Software Design	3:1:3 (6)	Fall	
EE 731	Adaptive Signal Processing	3:0:3 (6)	Spring			
CS	Elective (Essential)	CS 510	Computer Architecture	3:0:3 (6)	Spring	Computer Systems
		CS 520	Theory of Programming Language	3:0:3 (6)	Fall	Software
		CS 522	Theory of Formal Languages and Automata	3:0:3 (6)	Spring	Theory
		CS 530	Operating System	3:0:3 (6)	Spring/Fall	Computer Systems
		CS 540	Network Architecture	3:0:3 (9)	Spring/Fall	Computer Systems
		CS 562	Database Design	3:0:3 (6)	Fall	Software
		CS 570	Artificial Intelligence	3:0:3 (6)	Spring/Fall	Software

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CS	Elective	CS 441	Introduction to Computer Network	3:0:3(9)	Spring/Fall	M.S. course
		CS 504	Computational Geometry	3:0:3(8)	Spring	
		CS 542	Internet System Technology	3:0:3(9)	Fall	
		CS 574	Natural Language Processing I	3:0:3(6)	Fall	
		CS 580	Interactive Computer Graphics	2:3:3(10)	Spring	
		CS 600	Graph Theory	3:0:3(6)	Fall	
		CS 620	Theory of Compiler Construction	3:0:3(2)	Fall	
		CS 650	Advanced Software Engineering	3:0:3(6)	Fall	
		CS 655	System Modeling and Analysis	3:0:3(6)	Spring	
		CS 710	Topics in Computation Architecture	3:0:3(6)	Spring/Fall	
		CS 730	Topics in Operation Systems	3:0:3(6)	Spring/Fall	
		CS 744	Topics in System Architecture	3:0:3(9)	Spring/Fall	
		CS 760	Topics in Database System	3:0:3(6)	Spring/Fall	
IE	Elective	IE 425	Project Management	3:1:3(4)	Spring	
		IE 523	Production System Design	3:1:3(5)	Spring	
		IE 532	Simulation and System Modeling	3:0:3(6)	Fall	
		IE 535	Network Theory and Applications	3:1:3(4)	Spring	
		IE 536	Scheduling Theory and Applications	3:0:3(4)	Fall	
		IE 537	Business Telecommunication Systems	3:1:3(3)	Fall	
		IE 538	Genetic Algorithms and Applications	3:1:3(3)	Fall	
		IE 542	Regression Analysis: Theory and Practice	3:0:3(6)	Spring	
		IE 562	Information System Design	3:1:3(6)	Spring	
		IE 564	Internet Application Programming	3:1:3(4)	-	
		IE 633	Queueing Theory	3:0:3(6)	Spring	
		IE 638	Wireless and Cellular Communication Systems	3:1:3(3)	Spring	
		IE 639	Supply Chain Optimization	3:0:3(4)	Fall	
MAS	Elective	MAS 540	Real Analysis	3:0:3(6)		*AM541
		MAS 541	Complex function Theory	3:0:3(6)		*AM542
		MAS 546	Wavelets and Applications	3:0:3(6)		*AM546
		MAS 555	Advanced Statistics	3:0:3(6)		*AM560
		MAS 556	Time Series Analysis	3:0:3(6)		
		MAS 557	Theory and Application of Machine Learning	3:0:3(6)		*AM521
		MAS 560	Methods of Applied Mathematics	3:0:3(6)		*AM511
		MAS 565	Numerical Analysis	3:0:3(6)		*AM520
		MAS 641	Functional Analysis	3:0:3(6)		*AM641
		MAS 647	Ordinary Differential Equations	3:0:3(6)		
		MAS 650	Stochastic Differential Equations	3:0:3(6)		*AM650
		MAS 655	Graphic Models in statistics	3:0:3(6)		*AM662
		MAS 656	Multivariate Statistical Analysis	3:0:3(6)		*AM664
		MAS 657	Computational Models of Neural Networks	3:0:3(6)		*AM621
Research		TE 960	M.S. Thesis Research			
		TE 980	Ph.D. Thesis Research			
		TE 965	Individual (Project) for M.S. Student	0:6:2		
		TE 985	Individual (Project) for Ph.D. Student	0:6:2		
		TE 966	M.S. Seminar	1:0:1		
		TE 967	M.S. Thesis Seminar	1:0:1		
		TE 986	Ph.D. Seminar	1:0:1		

※ \* : Substitutional Subject.