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Course	Course Name	F-II 4 4	C:- 45	C 15	F-II 4F	C - 1.C	C 1 C	F-II 4 C	C 17	C 17
Cat # 1340	Course Name	Fall 14	Sp 15 X	Sum 15	Fall 15	Sp 16 X	Sum 16	Fall 16	Spr 17	Sum 17
1340	Introduction to Computing Concepts	X	X	-	X		-	X	X	-
	Principles of Computer Science	X		-	X	X	-	X	X	-
1342	Programming Concepts	X	X	-	X	X	-	X	X	-
2240	Assembly Language Programming and Machine Or	X	X	-	X	X	-	X	X	-
2341	Data Structures	Х	Х	-	Х	Х	-	Х	Х	-
2353	Discrete Computational Structures	Х	Х	-	Х	Х	-	X	Х	-
3330	Database Concepts	Χ	Х	-	Х	Х	-	Х	Х	-
3339	Information Assurance and Security	Х			Х		-	Χ		-
3342	Programming Languages	Χ	Х	-	Χ	Х	-	Χ	Х	-
3345	Graphical User Interface Design and Implementati	Χ	Χ	-	Х	Х	-	Χ	Χ	-
3353	Fundamentals of Algorithms	Χ	Χ	-	Х	Χ	-	Χ	Χ	-
3365	Introduction to Scientific Computing	Χ	X	-	Х	Х	-	Χ	Χ	-
3381	Digital Logic Design	Χ	Χ	-	Χ	Х	-	Χ	Χ	-
4340	Statistical Methods for Engineers and Applied Scie	Х	Х	-	Х	Х	-	Х	Χ	-
4344	Computer Networks and Distributed Systems	Х	Х	-	Х	Х	-	Х	Х	-
4345	Software Engineering Principles	Х	-	-	Х	-	-	Χ	-	-
4351	Senior Design I	Х	-	-	Х	-	-	Χ	-	-
4352	Senior Design II		Х	-		Х	-		Х	-
4360	Technical Entrepreneurship	Х	Х	-	Х	Х	-	Χ	Χ	-
4381	Digital Computer Design	Х	Х	-	Х	Х	-	Х	Х	-
5311	Fundamentals of Computer Science	-	-	Х	-	-	Х	-	-	Х
5/7111	Intellectual Property and Info Technology					Х			Х	
5/7313	Software Configuration Management	-	Х	-	-	Х	-	-	Χ	-
5/7314	Software Testing and Quality Assurance	Χ	-	-	Х	-	-	Х	-	-
5/7316	Software Requirements	Χ	-	-	Х	-	-	Χ	-	-
5/7317	Leadership for Architecting Software Systems	Χ	-	-	Х	-	-	Х	-	-
5/7319	Software Architecture and Design	-	Х	-	-	Х	-	_	Χ	-
5/7320	Artificial Intelligence	-	Х	-	-	Х	-	_	Х	-
—	Mobile Sensing and Learning							Х		
<u> </u>	File Organization and Database Management	X	-	-	Х	-	-	Х	-	-
5/7331	An Introduction to Data Mining and Related Topics		Х	-	-	Х	-	_	Х	-
5/7337	Information Retrieval and Web Search	-	X	_	_	X	-	_	Х	-
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	Course Name	Fall 14	Sp 15	Sum 15	Fall 15	Sp 16	Sum 16	Fall 16	Spr 17	Sum 17
	Security Economics	Х	-	-	Х		-	Х		-
	Computer System Security	X	-	-	Х	-	-	Х	-	-
•	Service-Oriented Computing		-	-			-			-
	Compiler Construction	-	-	-			-			-
	Concepts of Language Theory & Their Applications	5								
5/7343	Operating Systems and System Software	Χ	Х	Х	Х	Х	Χ	Χ	Χ	Χ
5/7344	Computer Networks and Distributed Systems II	-	Х	-	-	Х	-	-	Χ	-
5/7345	Advance Application Programming	Χ	-	-	Х	-	-	Χ	-	-
5/7346	Cloud Computing	Χ	-	-	Χ	-	-	Χ	-	-
5/7347	XML and the Enterprise	-	Х	-	-	Х	-	-	Χ	-
5/7348 I	Internetworking Protocols and Programming	-	Χ	-	-	Х	-	-	Х	-
5/7349 I	Data and Network Security	-	Χ	-	-	Х	-	-	Х	-
5/7350	Algorithm Engineering	Х	-		Х	-		Х	Х	-
5/7356	VLSI Design and Laboratory									
5/7359	Software Security	-	Χ	-	-	Х	-	-	Χ	-
5/7369 I	Hardware Security and Trojan Detection		-		Х	-		Χ	-	-
5/7380	VLSI Algorithms	-	Х	-			-		Χ	-
5/7381	Computer Architecture	Χ	Χ	-	Χ	Х	-	Χ	Х	-
5/7382	Computer Graphics	-	Х	-	-	Х	-	-	Χ	-
5/7385	Microcontroller Architecture and Interfacing	-	Х	-	-	Х	-	-	Χ	-
5/7387 เ	Digital Systems Design	Χ	-	-	Х	-	-	Χ	-	-
5360 I	Introduction to 3-D Animation	-	Χ	-	-	Х	-	-	Χ	-
7312	Software Systems Engineering									
7315	Software Project Planning and Management	-	Х	-		Х	-	-	Х	-
8098	Computer Science Seminars	Х	Х	-		Х	-	Х	Х	-
8312	Software Generation and Maintenance	-	-	-		-	-	-	-	-
8313 (Object-Oriented Analysis and Design	-	Х	-		-	-	Χ	-	-
8314	Software Metrics and Quality Engineering	-	-	-		-	-	Χ	-	-
8315	Software Acquisition Legal and Economic Issues	Х	-	-		-	-		-	-
	User Interface Design	-	Х	-		Х	-	-	Х	-
	Software Reliability and Safety	-	Х	-		-	-		-	-
8331 I	Data Mining		-	-		-	-	Х	-	-

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Cat #	Course Name	Fall 14	Sp 15	Sum 15	Fall 15	Sp 16	Sum 16	Fall 16	Spr 17	Sum 17
8340	Advabced Topics in Software Engineering		Χ	-		Χ	-		Χ	-
8343	Advanced Operating Systems	Х	-	-	Х	-	-	Χ	-	-
8344	Computer Networks	Х	-	-	Х	-	-	Χ	-	-
8349	Advanced Network and System Security	-	Χ	-		Χ	-		Х	-
8350	Algorithms II	-	-	-		Χ	-		-	-
8351	Computer Arithmetic	-	Χ	-		Χ	-		Х	-
8353	Digital Forensics					-			-	-
8355	Graph Theory Algorthms and Applications							Х		
8356	Border and Transportation Security									
8358	Information Structures									
8359	Advanced Software Security									
8377	Fault-Tolerant Computation	-	-	-	Х	-	-	Χ	-	-
8381	Quantum Logic and Computing	-	Χ	-		-	-		-	-
8383	Advanced Computer Architecture	-	Χ	-		-	-		-	-
8386	Testing of VLSI Circuits	Х	-			-			-	-
8387	Switching Theory and Applications in VLSI CAD									
8388	Embedded Computing System Design									
8389	Foundations of Formal Verification and Validation	-	-	-		-	-		-	-