CIRCUITS & ELECTRONICS					
B1	CIRCUITS Sinusoidal Steady State Analysis	"Electric Circuits," J. W. Nilsson & Susan A. Riedel,9 th ed., Prentice Hall, Chapters 7 – 10.	Dr. Lakdawala		
B2	CIRCUITS Circuit Analysis with the Laplace Transform	"Electric Circuits," J. W. Nilsson & Susan A. Riedel,9 th ed., Prentice Hall, Chapter 13.	Dr. Lakdawala		
В3	ELECTRONICS	"Microelectronic Circuits," A. S. Sedra and K. C. Smith,5 th ed., Oxford Univ. Press, New York, 1998. Chapters: 2-5.	Dr. Namkoong		
	SYS	TEMS, SIGNAL AND IMAGE PROCESSING			
C1	IMAGE PROCESSING	"Digital Image Processing," R. C. Gonzalez and R. E. Woods, 3 rd ed., Prentice Hall, 2007, Chapters 1 – 4.	Dr. Chen		
C2	DIGITAL SIGNAL PROCESSING Discrete-Time System Analysis	"Linear Systems and Signals," B. P. Lathi, 2 nd ed., Oxford, 2005, Chapters 3, 5.	Dr. Li		
С3	DIGITAL SIGNAL PROCESSING Sampling and Fourier Analysis of Discrete-Time Signals and Systems	"Linear Systems and Signals," B. P. Lathi, 2 nd ed., Oxford, 2005, Chapters 8, 9.	Dr. Li		
C4	CONTROL SYSTEMS	"Control Systems Engineering," N. S. Nise, 6 th ed., Wiley, 2011, Chapters 2 – 11, Secs. 12.1 – 12.2.	Dr. González		
C5	COMMUNICATION SYSTEMS	"Fundamentals of Communication Systems," J. G. Proakis and M. Salehi, Pearson/Prentice-Hall, 2005. Chapters 1 – 7.	Dr. Popescu		
C6	COMMUNICATION NETWORKS	Data Link Layer error detection and correction methods Sliding window protocols Multiple access protocols (Aloha variants, CSMA with CD/CA) Routing algorithms (Link State, Distance Vector, RIP, OSPF) TCP congestion control "Computer Networks," A. S. Tanenbaum, Prentice Hall, 5th Ed., 2011, Sections 3.1 – 3.4, 4.1 – 4.2, 5.1 – 5.6, 6.2, 6.4, 6.5. "Computer Networking: A Top-Down Approach," J. F. Kurose and K. W. Ross, 5th ed., 2010 Chapters 1, 3–5.	Dr. Xin		

COMPUTER SYSTEMS

Ch. 1. Microprocessor systems, microcontrollers and

F1 MICROPROCESSORS

CYBERSECURITY					
G1	COMPUTER NETWORKS AND SECURITY	"Computer Networking: A Top-Down Approach," J. F. Kurose and K. W. Ross, 8th ed., 2021, Chapters 7 and 8	Dr. Alsharif		
G2	CYBER DEFENSE FUNDAMENTALS	"Introduction to Cryptography with Coding Theory", Wade Trappe and Lawrence C. Washington, Chapter 1-9	Dr. Wu		
G3	CYBER PHYSICAL SYSTEM SECURITY	"Security in Computing", 5th edition, by Charles Pfleeger, Shari Lawrence Pfleeger, and Jonathan Margulies, Chapter 3-9	Dr. Wu		
G4	FOUNDATIONS OF CYBERSECURITY	Set-UID Programs, Buffer Overflow Attack and Format String Vulnerability. "Computer Security- A Hands-on Approach", Wenliang Du, 1st Edition, Chapters 1, 4 and 6	Dr. Shetty		
I	1	E. A. Lee and S. A. Seshia, Introduction to Embedded Systems - A Cyber-Physical Systems Approach, Second Edition, by, MIT Press, 2017.	'		

SECURITY AND PRIVACY **G5** OF EMBEDDED SYSTEMS

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