

Week	Objectives/Learning outcomes	Content	Instructional Strategy/Teaching Method/Activity	Assessment Technique/Method	Helping Material
1	<ul style="list-style-type: none"> <li>To provide students with a comprehensive introduction to fundamental concepts of data communication and computer networks for building a sound foundation for subsequent courses in the field of networking.</li> <li>To introduce the layered architecture approach with reference to OSI Model.</li> <li>To examine the characteristics of different transmission media.</li> <li>To understand the basic encoding and modulation techniques.</li> <li>To understand various error detection, flow and error control techniques.</li> <li>To introduce basic network devices and LAN technologies.</li> <li>To provide fundamental concepts of switched networks.</li> <li>To provide the IP addressing concepts and subnetting skills.</li> <li>To provide hands on experience of basic Computer Utility Tools</li> <li>To provide the necessary skills for LAN implementation.</li> <li>To provide basic introduction on Network Simulation and Analysis Tools (Opnet, NS2...)</li> <li>To provide basic concepts of System and Network Programming</li> </ul>	<b>Introduction to Data Communications and Computer Networks:</b>	<b>visualization</b>  <b>Cooperative learning</b>  <b>Technology in the classroom</b>  <b>Behavior management</b>  <b>Professional development</b>	Assignment(s): 10% Quizzes: 5%  Project: 10%  Midterm Exam 25%	<a href="#">Data Communications and Networking</a> by Behrouz A. Forouzan, Fifth Edition, Tata McGraw-Hill companies
2	<ul style="list-style-type: none"> <li>To provide students with a comprehensive introduction to fundamental concepts of data communication and computer networks for building a sound foundation for subsequent courses in the field of networking.</li> <li>To introduce the layered architecture approach with reference to OSI Model.</li> <li>To examine the characteristics of different transmission media.</li> <li>To understand the basic encoding and modulation techniques.</li> <li>To understand various error detection, flow and error control techniques.</li> <li>To introduce basic network devices</li> </ul>	<b>Protocol Layering: Principles of protocol layering, Logical Connections, Layered Architecture</b>  <b>TCP/IP Protocol Suite: Overview of TCP/IP Protocol Suite and Addressing, OSI model</b>	<b>visualization</b>  <b>Cooperative learning</b>  <b>Technology in the classroom</b>  <b>Behavior management</b>  <b>Professional</b>	Assignment(s): 10% Quizzes: 5%  Project: 10%  Midterm Exam 25%	<a href="#">Data Communications and Networking</a> by Behrouz A. Forouzan, Fifth Edition, Tata McGraw-Hill companies

	<ul style="list-style-type: none"> <li>and LAN technologies.</li> <li>To provide fundamental concepts of switched networks.</li> <li>To provide the IP addressing concepts and subnetting skills.</li> <li>To provide hands on experience of basic Computer Utility Tools</li> <li>To provide the necessary skills for LAN implementation.</li> <li>To provide basic introduction on Network Simulation and Analysis Tools (Opnet, NS2...)</li> <li>To provide basic concepts of System and Network Programming</li> </ul>		<b>development</b>		
<b>3</b>	<ul style="list-style-type: none"> <li>To provide students with a comprehensive introduction to fundamental concepts of data communication and computer networks for building a sound foundation for subsequent courses in the field of networking.</li> <li>To introduce the layered architecture approach with reference to OSI Model.</li> <li>To examine the characteristics of different transmission media.</li> <li>To understand the basic encoding and modulation techniques.</li> <li>To understand various error detection, flow and error control techniques.</li> <li>To introduce basic network devices and LAN technologies.</li> <li>To provide fundamental concepts of switched networks.</li> <li>To provide the IP addressing concepts and subnetting skills.</li> <li>To provide hands on experience of basic Computer Utility Tools</li> <li>To provide the necessary skills for LAN implementation.</li> <li>To provide basic introduction on Network Simulation and Analysis Tools (Opnet, NS2...)</li> <li>To provide basic concepts of System and Network Programming</li> </ul>	<p><b>Fundamentals of Data and signals:</b></p> <p><b>Analog and Digital Data, Periodic and A periodic Signals, Analog Signals, Sine Wave, Peak Amplitude, Period and Frequency, Phase, Time and Frequency Domains, Composite Signals</b></p> <p><b>Digital Signals:</b></p> <p>Digital Signals, Bit Interval and Bit Rate, Analog and digital transmission, Treatment of Signals, Comparison of Digital and Analog Signals</p>	<p><b>visualization</b></p> <p><b>Cooperative learning</b></p> <p><b>Technology in the classroom</b></p> <p><b>Behavior management</b></p> <p><b>Professional development</b></p>	<p>Assignment(s): 10%</p> <p>Quizzes: 5%</p> <p>Project: 10%</p> <p>Midterm Exam 25%</p>	<p><u>Data Communications and Networking</u> by Behrouz A. Forouzan, Fifth Edition, Tata McGraw-Hill companies</p>
<b>4</b>	<ul style="list-style-type: none"> <li>To provide students with a comprehensive introduction to fundamental concepts of data communication and computer networks for building a sound foundation for subsequent courses in the field of networking.</li> <li>To introduce the layered</li> </ul>		<p><b>visualization</b></p> <p><b>Cooperative learning</b></p>	<p>Assignment(s): 10%</p> <p>Quizzes: 5%</p> <p>Project:</p>	<p><u>Data Communications and Networking</u> by Behrouz A. Forouzan, Fifth Edition, Tata McGraw-Hill companies</p>

	<p>architecture approach with reference to OSI Model.</p> <ul style="list-style-type: none"> <li>To examine the characteristics of different transmission media.</li> <li>To understand the basic encoding and modulation techniques.</li> <li>To understand various error detection, flow and error control techniques.</li> <li>To introduce basic network devices and LAN technologies.</li> <li>To provide fundamental concepts of switched networks.</li> <li>To provide the IP addressing concepts and subnetting skills.</li> <li>To provide hands on experience of basic Computer Utility Tools</li> <li>To provide the necessary skills for LAN implementation.</li> <li>To provide basic introduction on Network Simulation and Analysis Tools (Opnet, NS2...)</li> <li>To provide basic concepts of System and Network Programming</li> </ul>		<p><b>Technology in the classroom</b></p> <p><b>Behavior management</b></p> <p><b>Professional development</b></p>	<p>10%</p> <p>Midterm Exam 25%</p>	
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	System and Network Programming				
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	<ul style="list-style-type: none"> <li>To provide hands on experience of basic Computer Utility Tools</li> <li>To provide the necessary skills for LAN implementation.</li> <li>To provide basic introduction on Network Simulation and Analysis Tools (Opnet, NS2...)</li> <li>To provide basic concepts of System and Network Programming</li> </ul>				
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14	<ul style="list-style-type: none"> <li>To provide students with a comprehensive introduction to fundamental concepts of data communication and computer networks for building a sound foundation for subsequent courses in the field of networking.</li> <li>To introduce the layered architecture approach with reference to OSI Model.</li> <li>To examine the characteristics of different transmission media.</li> <li>To understand the basic encoding</li> </ul>	<b>Subnetting:</b> <b>Process-to- Process Communication:</b> Addressing at Transport Layer, Connection Oriented Vs Connectionless Service, Reliable Vs Unreliable, User Datagram Protocol (UDP)	<b>visualization</b>  <b>Cooperative learning</b>  <b>Technology in the classroom</b>  <b>Behavior</b>	Assignment(s): 10% Quizzes: 5%  Project: 10%  Midterm Exam 25%	<u>Data Communications and Networking</u> by Behrouz A. Forouzan, Fifth Edition, Tata McGraw-Hill companies



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<b>15</b>	<ul style="list-style-type: none"> <li>To provide students with a comprehensive introduction to fundamental concepts of data communication and computer networks for building a sound foundation for subsequent courses in the field of networking.</li> <li>To introduce the layered architecture approach with reference to OSI Model.</li> <li>To examine the characteristics of different transmission media.</li> <li>To understand the basic encoding and modulation techniques.</li> <li>To understand various error detection, flow and error control techniques.</li> <li>To introduce basic network devices and LAN technologies.</li> <li>To provide fundamental concepts of switched networks.</li> <li>To provide the IP addressing concepts and subnetting skills.</li> <li>To provide hands on experience of basic Computer Utility Tools</li> <li>To provide the necessary skills for LAN implementation.</li> <li>To provide basic introduction on Network Simulation and Analysis Tools (Opnet, NS2...)</li> <li>To provide basic concepts of System and Network Programming</li> </ul>	<b>Process to Communication</b>	<b>visualization</b>  <b>Cooperative learning</b>  <b>Technology in the classroom</b>  <b>Behavior management</b>  <b>Professional development</b>	Assignment(s): 10% Quizzes: 5%  Project: 10%  Midterm Exam 25%	<u>Data Communications and Networking</u> by Behrouz A. Forouzan, Fifth Edition, Tata McGraw-Hill companies
<b>16</b>	<ul style="list-style-type: none"> <li>To provide students with a comprehensive introduction to fundamental concepts of data</li> </ul>	<b>Application Layer:</b>	<b>visualization</b>	Assignment(s): 10%	<u>Data Communications and Networking</u> by

	<p>communication and computer networks for building a sound foundation for subsequent courses in the field of networking.</p> <ul style="list-style-type: none"> <li>• To introduce the layered architecture approach with reference to OSI Model.</li> <li>• To examine the characteristics of different transmission media.</li> <li>• To understand the basic encoding and modulation techniques.</li> <li>• To understand various error detection, flow and error control techniques.</li> <li>• To introduce basic network devices and LAN technologies.</li> <li>• To provide fundamental concepts of switched networks.</li> <li>• To provide the IP addressing concepts and subnetting skills.</li> <li>• To provide hands on experience of basic Computer Utility Tools</li> <li>• To provide the necessary skills for LAN implementation.</li> <li>• To provide basic introduction on Network Simulation and Analysis Tools (Opnet, NS2...)</li> <li>• To provide basic concepts of System and Network Programming</li> </ul>	<p><b>Network Security Issues:</b></p> <p>Basic overview of Cryptography and Security in Internet</p>	<p><b>Cooperative learning</b></p> <p><b>Technology in the classroom</b></p> <p><b>Behavior management</b></p> <p><b>Professional development</b></p>	<p>Quizzes: 5%</p> <p>Project: 10%</p> <p>Midterm Exam 25%</p>	<p>Behrouz A. Forouzan, Fifth Edition, Tata McGraw-Hill companies</p>
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