



International Islamic University Chittagong (IIUC)
Department of Computer & Communication Engineering (CCE)

Lab Manual

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Sessional

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Lab Manual Of Data Communication And Networking

Cisco Networking Academy



Lab Manual Of Data Communication And Networking:

Data Communications and Networking Laboratory Manual Pasquale De Marco, 2025-04-13 Embark on an immersive journey through the world of data communications and networking with this comprehensive laboratory manual meticulously designed to transform theoretical concepts into tangible experiences. Written for students pursuing undergraduate or graduate studies in computer science engineering or related fields, this manual offers an unparalleled opportunity to reinforce classroom learning through hands-on experimentation and practical exercises. Through a series of carefully structured experiments, this manual delves into the intricacies of data transmission, network protocols, and network management. Each experiment is meticulously crafted to elucidate a specific aspect of data communications and networking, fostering a deeper understanding of the underlying principles and their practical applications. With a strong emphasis on experiential learning, this manual empowers students to actively engage with the concepts they encounter in the classroom. By conducting hands-on experiments, students gain firsthand experience in configuring and troubleshooting network devices, analyzing network traffic, and implementing various network protocols. This practical approach cultivates a profound comprehension of the subject matter and prepares students for success in their future careers. Furthermore, this manual is meticulously aligned with the latest industry standards and practices, ensuring that students acquire up-to-date knowledge and skills that are highly sought after in the job market. The experiments and exercises reflect real-world scenarios, enabling students to develop the critical thinking and problem-solving abilities essential for thriving in the dynamic field of data communications and networking. As students progress through the experiments, they will delve into topics such as network topologies, transmission media, data link protocols, network layer protocols, transport layer protocols, application layer protocols, network security, and network management. Each experiment is accompanied by clear instructions, detailed procedures, and thought-provoking questions that stimulate critical thinking and encourage students to explore beyond the confines of the laboratory. By seamlessly blending theoretical knowledge with practical application, this laboratory manual empowers students to master the intricacies of data communications and networking, equipping them with the skills and confidence needed to excel in their chosen field. If you like this book, write a review on Google Books.

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Business Data Communications and Networking Jerry FitzGerald, Alan Dennis, 2009-01-09 Over the past few years, many fundamental changes have occurred in data communications and networking that will shape the future for decades to come. Updated with the latest advances in the field, Jerry FitzGerald and Alan Dennis 10th Edition of Business Data Communications and Networking continues to provide

the fundamental concepts and cutting edge coverage applications that students need to succeed in this fast moving field Authors FitzGerald and Dennis have developed a foundation and balanced presentation from which new technologies and applications can be easily understood evaluated and compared

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