# 20AD22P1 - COMPUTER NETWORKS LABORATORY

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| Course Category: | Program Core | Credits: | 1.5 |
| Course Type: | Practical | Lecture-Tutorial-Practical: | 0-0-3 |
| Prerequisite: | Knowledge in Computer Fundamentals and basic Network essentials. | Sessional Evaluation:  Univ. Exam Evaluation:  Total Marks: | 40  60  100 |
| Objectives: | * To learn and practice the essentials of computer network layers, protocols and supporting applications. | | |

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| Course Outcomes | At the end of this lab session, the students will be able to understand the basics of computer Network layers and analyse some of the protocols & application. |
| Course Content | 1. Study of different types of Network cables and implement the Cross-Wired Cable and Straight through Cable using Clamping tool. 2. Study Network Devices and its basic network commands in Detail. 3. Study of Network IPV4 addressing and Sub-Netting. 4. Create Web Pages. 5. Analyse Distance Vector Routing. 6. Analyse Link State Vector Routing. 7. Analyse Error Detection Mechanism. 8. Analyse Error Correction Mechanism. |
| Text Books &  References  Books | **REFERENCE BOOKS:**   1. Computer Networking: A Top-Down Approach, James F. Kurose, K. W. Ross, 6th Edition, Pearson Education. 2. Computer Networks - Andrew S Tanenbaum, 4th Edition, Pearson Education 3. HTML, XHTML and CSS Bible by Steven M. Schafer, 5th Edition, Wiley Publications |
| E-Resources | 1. <https://www.wireshark.org/> 2. <https://bayanbox.ir/view/3697480237749666667/Introduction-to-Network-Simulator-NS2-2012.pdf> |