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| The Islamic University of Gaza | IUG-Logo | Second Semester |
| Faculty of IT | 2023-2024 |
| Computer Science Department | Instructor: Samar Ali Arfa |

**Course Syllabus**

**Course Name:** Computer Networks (Lab)

**Course ID:** SICT3109

**Course Outline:**

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| **#** | **Topics** | **No of Weeks** | **Sub-topics** |
|  | Introduction to Hardware Components of Network | 2 | * OSI model VS TCP/IP model * Network layers and services * Network Devices * Broadcast and Collision domains |
|  | Network commands | 1 | * Network commands on windows |
|  | IP Addressing and Subnetting | 1 |  |
|  | Port Addressing, physical media | 1 |  |
|  | LAN Setup and Monitoring, VLSMs | 1 |  |
|  | Cisco’s Internetworking Operating System (IOS) | 1 |  |
|  | IP Routing I | 1 | * Configuring Static and Default Routes |
|  | IP Routing II | 1 | * Configuring RIPv2 |
|  | IP Routing III | 1 | * Configuring EIGRP * Configuring OSPF |
|  | Virtual LANs | 1 |  |
|  | DNS server | 1 |  |
|  | TCP & UDP protocols | 2 | * TCP & UDP implementation |
|  | Access Control Lists | 1 |  |
|  | **Total weeks** | **15** |  |

**Grading:**

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| Midterm Assignments (60 %) | Final Assignment (40%) |
| * Assignments (30%) * Quizzes 30% | * Final Exam |

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