

| Delivery Plan (Weekly Syllabus)      |                                                                                     |
|--------------------------------------|-------------------------------------------------------------------------------------|
|                                      | Material Covered                                                                    |
| Week 1, 2                            | Explore the Network                                                                 |
| Week 3-4                             | Configure a Network Operating System                                                |
| Week 5,7                             | Network Protocols and Communications, and Network Access                            |
| Week 8                               | Ethernet                                                                            |
| Week 9-11                            | Network Layer, IP Addressing, and Subnetting IP Networks                            |
| Week 12                              | Transport Layer                                                                     |
| Week 13                              | Application Layer                                                                   |
| Week 14                              | Build a Small Network                                                               |
| Week 15                              | The preparatory week before the final exam                                          |
| Delivery Plan (Weekly Lab. Syllabus) |                                                                                     |
|                                      | Material Covered                                                                    |
| Week 1                               | Lab 1: Packet Tracer Program                                                        |
| Week 2                               | Lab 2: Switch & Router Configuration.                                               |
| Week 3,4                             | Lab 3: Router Configuration Networks                                                |
| Week 5,6                             | Lab 4: Address Resolution Protocol ARP and Reverse Address Resolution Protocol RARP |
| Week 7                               | Lab 5: Domain Name Service (DNS)                                                    |
| Week 8,9                             | Lab 6: Dynamic Host Control Protocol (DHCP)                                         |
| Week 10                              | Lab 7: Virtual Local Area Network (VLAN)                                            |
| Week 11,12                           | Lab 8: Configure a Network using Distance Vector Routing protocol.                  |
| Week 13,14                           | Lab 9: Configure a Network using Link State Routing protocol                        |

| Learning and Teaching Resources |      |                           |
|---------------------------------|------|---------------------------|
|                                 | Text | Available in the Library? |
|                                 |      |                           |

|                          |                                                                                                                                                                                                                                                         |     |
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| <b>Required Texts</b>    | 9. Behrouz Forouzan, "Introduction to Data Communication and Networking", Tata McGraw Hill, New Delhi.<br>10. Mark A. Dye, Rick McDonald, Antoon W. Ruff, "Network Fundamentals, CCNA Exploration Companion Guide", Copyright© 2008 Cisco Systems, Inc. | Yes |
| <b>Recommended Texts</b> | Nagpal D P, "Local Area Networks", Asian Books P Ltd, New Delhi                                                                                                                                                                                         | No  |
| <b>Websites</b>          | <a href="https://www.netacad.com/courses/networking">https://www.netacad.com/courses/networking</a>                                                                                                                                                     |     |

| Group                               | Grade                   | Marks (%) | Definition                                |
|-------------------------------------|-------------------------|-----------|-------------------------------------------|
| <b>Success Group<br/>(50 - 100)</b> | <b>A – Excellent</b>    | 90 - 100  | Outstanding Performance                   |
|                                     | <b>B - Very Good</b>    | 80 - 89   | Above average with some errors            |
|                                     | <b>C – Good</b>         | 70 - 79   | Sound work with notable errors            |
|                                     | <b>D – Satisfactory</b> | 60 - 69   | Fair but with major shortcomings          |
|                                     | <b>E – Sufficient</b>   | 50 - 59   | Work meets minimum criteria               |
| <b>Fail Group<br/>(0 – 49)</b>      | <b>FX – Fail</b>        | (45-49)   | More work is required, but credit awarded |
|                                     | <b>F – Fail</b>         | (0-44)    | A considerable amount of work required    |
|                                     |                         |           |                                           |