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<th>Wk</th>
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<th>Topics</th>
<th>Assignments/Activities</th>
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| 1  | 23-Oct | 1  | Introduction to Routing and Packet  | • Router Boot-Up Process  
• CLI Configuration and Addressing  
• Building the Routing Table  
• Path determination and Switching Functions                                         | Lab 1.5.1: Cabling a Network and Basic Router Configuration  
Lab 1.5.2: Basic Router Configuration  
Lab 1.5.3: Challenge Router Configuration  
**Week 1 Homework**                                                                 |
|    |        |    | Forwarding                           |                                                                                                                                          |                                                                                         |
| 2  | 25-Oct | 2  | Static Routing                       | • Router Configuration Review  
• Exploring Directly Connected Networks  
• Static Routes with "Next Hop" address  
• Static Routes with Exit Interfaces  
• Summary and Default Static Routes  
• Managing and Troubleshooting                                              | Lab 2.8.1: Basic Static Route Configuration  
Lab 2.8.2: Challenge Static Route Configuration  
Lab 2.8.3: Troubleshooting Static Routes                                                                                   |
|    |        |    |                                       |                                                                                                                                          |                                                                                         |
| 2  | 30-Oct | 3  | Introduction to Dynamic Routing      | • Classifying Dynamic Routing Protocols  
• Metrics  
• Administrative Distances  
• Routing Protocols and Subnetting                                                  | Activity 3.5.2 Subnetting Scenario 1  
Activity 3.5.3 Subnetting Scenario 2  
Activity 3.5.4 Subnetting Scenario 3  
**Lab 5.6.1: Basic RIP Configuration**  
**Week 2 Homework -- PT 3.6.1**                                                                                       |
|    |        |    | Protocols                            |                                                                                                                                          |                                                                                         |
|    | 1-Nov  | 4  | Distance Vector Routing Protocols    | • Distance Vector Technology  
• Network Discovery  
• Routing Table Maintenance  
• Routing Loops  
• RIP and EIGRP                                                               | Lab 4.6.1: Routing Table Interpretation Lab                                                                                      |
| 3  | 6-Nov  | 5  | RIP Version 1                        | • Distance Vector, Classful Routing Protocols  
• Basic RIPv1 Configuration  
• Verification and Troubleshooting  
• Automatic Summarization  
• Default Route and RIPv1                                                     | Lab 5.6.2: Challenge RIP Configuration  
Lab 5.6.3: RIP Troubleshooting                                                                                               |
|    |        |    |                                       |                                                                                                                                          | **Week 3 Homework -- PT 5.6.2**                                                              |
| 4  | 8-Nov  | 6  | VLSM and CIDR                         | • Classful and Classless Addressing  
• VLSM  
• CIDR  
• VLSM and Route Summarization Activity                                              | Activity 6.4.1 Basic VLSM calculation and addressing design  
Activity 6.4.2 Challenge VLSM calculation and addressing design  
Activity 6.4.3 Troubleshooting VLSM addressing design  
Activity 6.4.4 Basic route summarization  
Lab 7.5.1: RIPv2 Basic Configuration Lab  
**Week 4 Homework -- PT 7.6.1**                                                                                   |
|    |        |    |                                       |                                                                                                                                          |                                                                                         |
| 4  | 13-Nov | 7  | RIPv2                                 | • RIPv1 Limitations  
• Configuring RIPv2  
• VLSM and CIDR  
• Verifying and Troubleshooting RIPv2                                              | Activity 6.4.5 Challenge route summarization  
Activity 6.4.6 Troubleshooting route summarization  
Lab 7.5.2: RIPv2 Challenge Configuration  
Lab 7.5.3: RIPv2 Troubleshooting Lab                                                                                     |
|    |        |    |                                       |                                                                                                                                          |                                                                                         |
| 5  | 15-Nov |    | Possible MID-TERM EXAM               | Begin Chapter 8                                                                                                                          |                                                                                         |
|    |        |    |                                       |                                                                                                                                          |                                                                                         |
| 5  | 20-Nov | 8  | The Routing Table: A Closer Look     | • The Routing Table Structure  
• Routing Table Lookup Process  
• Routing Behavior  
• Introduction to EIGRP  
• Basic EIGRP configuration                                 | Lab 8.4.1: Investigating the Routing Table Lookup Process  
**Lab 8.4.2: Show IP Route Challenge Lab**  
Lab 9.6.1: Basic EIGRP Configuration                                                                                       |
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<td>4-Dec</td>
<td>OSPF</td>
<td>Lab 11.6.1: Basic OSPF Configuration Lab</td>
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<td>Review</td>
<td>More OSPF</td>
<td>Lab 11.6.2: Challenge OSPF Configuration Lab</td>
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