**HIT274 PROJECT MARKING RUBRIC**

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| --- | --- | --- | --- | --- |
| **Category** | **Criteria** | **Comments to students** | **Group Marks** | |
| **Report**  **(20)** | **Report writing, presentation, organisation**   * Introduction – describes the background and aim of this project * Conclusion - clear, precise conclusions made based on your simulation. Insights are appropriate and directions for further work are stated. * Writing is appropriate and report looks professional. Ideas and presentations follow in a logical manner. * Clear, concise, and coherent presentation of idea with correct English: spelling, grammar, and punctuation. |  | /4 | |
| **Design**   * Describe how the design came about and how your design meet the needs of this project for both IPv4 and IPv6 network * Appropriate number of devices in your design such as routers (min. of 3 wired routers per student’s network), switches, servers, PCs, printers, etc. * Consider how connectivity can be established among the various networks and to the Internet * Consider how redundancies have been taken in account |  | /3 | |
| **Routing**   * Describes how routing has been considered in your design and how it has been implemented * Default static route has been configured appropriately and correctly * Describes how both IPv4 and IPv6 traffic are being routed |  | /3 | |
| **Wireless**   * Describes how wireless LAN has been considered in your design and how it has been implemented to connect to other devices |  | /1 | |
| **Security**   * Describes how security has been considered in your design and how it has been implemented * Your switches, routers and wireless devices have been secured appropriately |  | /3 | |
| **IP Addressing**   * IP addressing – shows how IPv4 and IPv6 addressing and subnetting (VLSM for IPv4) have been done |  | /3 | |
| **Connectivity**   * Demonstrates connectivity with relevant screenshots to other members’ IPv4 and IPv6 networks * Demonstrates connectivity with relevant screenshots to the WWW server |  | /3 | |
|  | **Subtotal Marks** |  | /20 | |
|  | | | | |
| **Category** | **Criteria** | **Comments to students** | **Individual Marks** | **Group Marks** |
| **Simulation**  **(20)** | **Setup**   * The network design of each student uses a minimum of 3 routers and complement other students’ networks to meet the needs of the scenario. * The overall topology has the appropriate number of networks, routers, switches and end devices. * There are redundancies in the network and/or any appropriate design to handle network or device failures |  | /3 | /1 |
| **Configuration**   * Devices are configured with the right IPv4 and IPv6 addresses * Web servers are configured correctly with DNS services * Routers have been configured with the appropriate routing protocols to access other networks which includes both IPv4 and IPv6 traffic * Default static route has been configured correctly in the appropriate routers * Wireless setup has been configured properly * Standard security features have been configured in all the routers, switches and wireless devices |  | /8 | /1 |
| **Connectivity**   * All appropriate devices can access the WWW server * Devices can communicate with other devices in other networks |  | /4 | /3 |
|  | **Subtotal Marks** |  | /15 | /5 |
|  | | | | |
| **Report and Simulation** | **TOTAL MARK** |  | /40 | |