COMPUTER ENGINEERING

**Title of Micro-Project: -**Create any network topology in Cisco Packet Tracer.

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| **ROLL NO** | **CLASS** | **NAME OF MEMBER** |
| 3111 | CO5I | Shreyash Kotain |
| 3112 | CO5I | Darshana Kure |
| 3113 | CO51 | Sahil Mahatre |
| 3114 | CO5I | Omkar Moolya |
| 3115 | CO5I | Aman Pandey |
| 3116 | CO5I | Priyanaka Patil |
| 3117 | CO5I | Heramb Pawar |
| 3118 | CO5I | Aditya Raut |
| 3119 | CO5I | Pawan Salve |
| 3120 | CO5I | Ameya Sawant |

**Group members**

**Guide Name**: - Mrs.Monal Malage

**Part A Plan**

**Title of Micro-Project:** **–** Create Bus topology in Cisco Packet Tracer:

**Brief Description**: -

* Bus topology is a network setup where each computer and network device are connected through a single cable or backbone. It is also known as Line topology.
* These computers connected in the network share resources such as files, network access, printers, etc.
* Depending on the type of computer [network card](https://www.computerhope.com/jargon/n/nic.htm), a [coaxial cable](https://www.computerhope.com/jargon/c/coaxialc.htm) or an [RJ-45](https://www.computerhope.com/jargon/r/rj45.htm) network cable is used to connect them together. If this cable is damaged then the connection of all the computers will be lost.
* When Bus Topology has only two endpoints, it is known as Linear Topology. In Bus topology data is transmitted only in one direction.
* Bus topology carries transmitted data through cable. When the data reaches each node, node checks destination address (MAC/IP address) to work out if it matches their address.
* If address does not match with node, the node discards the packet. But if addresses of node match to address contained within data then the packet is decapsulated and data present in it is send for further processing.

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**Aim of Micro-Project: -**

The micro-project aims to: -

* Study the structure of bus topology.
* Study functioning of bus topology.
* Study about the features and tools present in cisco packet tracer and implement them.
* Study how data is transferred in bus topology.

**Action Plan: -**

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| **Sr no** | **Detail of activities** | **Plan start date** | **Plan end date** | **Name of team members** |
| 1 | Group formed according to roll no & group leaders were elected also detailed information on micro project was given |  |  | Darshana Kure |
| 2 | Finalization of microproject as well as detailed discussion regarding topic |  |  | Sahil Mhatre |
| 3 | Planning of micro-project regarding, resources required, software to be used, submission date and completing part a plan of micro – project |  |  | Aman Pandey |
| 4 | Complete analysis of design part of micro-project & distribution of module among group members |  |  | Priyanka Patil |
| 5 | Getting it finalized by the guide |  |  | Heramb Pawar |
| 6 | Implementation of Project report |  |  | Aditya Raut |
| 7 | Presentation of 1st part of micro-project Infront of guide by each group member and  Preparing of part b plan for micro-project |  |  | Pawan Salve |
| 8 | Submission of micro-project |  |  | Ameya Sawant |

**Resources Used: -**

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| **Sr No** | **Name of Resources Required** | **Specification** | **Quantity** | **Remarks** |
| 1 | Computer | **Processor-**Amd  **Hard Disk-**2 Tb  **Ram-**16gb  **Operating System-**Windows 10 Pro | 1  1  1  1 | Hardware Used |
| 2 | Cisco Packet Tracer | Version 7.2 | 1 | Software Used |
| 3 | Components | PC, Switch, Copper Straight & Copper Cross Over Cable | 5 Pcs, 5 Switches & Cables as per Need | Components Used in Cisco to Create Project Circuit |