**PROJECT SYNOPSIS**

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| DEPARTMENT | Computer Science and Engineering | | | |
| TITLE OF THE PROJECT | Network design and implementation of entire college network RIP/EIGRP Protocol And Router Secure Login Mechanism. | | | |
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| PROJECT TIMELINE  (Tentative Start date- End Date) | Sep 2022 to Jan 2023 | | | |
| PROJECT GUIDE | Dr. Nagaraja J, Associate Professor | | | |
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| PROJECT - Domain | Computer Networks | | | |
| Introduction | This College Network Scenario is about designing a topology of a network that is a LAN (Local Area Network) for a College in which various computers of different departments are set up so that they can interact and communicate with each other by interchanging data.  To design a networking scenario for a college which connect various departments to each other’s, it puts forward communication among different departments. CNS is used to design a systematic and well-planned topology, satisfying all the necessities of the college (i.e. client). CNS come up with a network with good performance. | | | |
| Application/s |  | | | |
| PROJECT Problem STATEMENT | Solving the problem of inter-department communication using Routing Information Protocol/ Enhanced Interior Gateway Routing Protocol. | | | |
| OBJECTIVEs OF THE PROJECT | * The main objective of the proposed network is to enhance its capabilities and increase the flexibility of the network which will eventually provide good security. * The installed equipment allowed to organize high-speed wired and wireless Internet access throughout the whole complex of college buildings as well as providing transfer of all types of data throughout the single optimized network. | | | |
| Proposed Solution | Solution Strategy with a block diagram | | | |
| PlaTform that will be used for implementation  (Name the hardware and Software tools and Development Environment  that you will be using for implementation) | HW: | | | |
| Programming Language | | | |
| Front End/Back End Tools | | | |
| Other Details (if any) | | | |
| Demonstration Details | (Write about how you will demonstrate the project – showing it with suitable application.)  Mention the UI details/ | | | |
| References | * Ambresh G. Biradar., “A comparative Study on Routing Protocols: RIP, OSAP and EIGRP and Their Analysis Using GNS-3”, 2020 5th IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE), Dec 2020. * Qin, X. U. E. "Simulation Experimental Teaching of Computer Network Based on Packet Tracer [J]." Research and Exploration in Laboratory 2 (2010): 57-59. * “Design and Simulation of Local Area Network Using Cisco Packet Tracer”. The International Journal of Engineering and Science (IJES) || Volume || 6 || Issue || 10 || Pages || PP 63- 77 || 2017 || ISSN (e): 2319 – 1813 ISSN (p): 2319 – 1805. | | | |