DAYANANDA SAGAR COLLEGE OF ENGINEERING

(An Autonomous Institution affiliated to VTU, Accredited with NAAC 'A' Grade)

PROJECT SYNOPSIS

DEPARTMENT	Computer Science			
TITLE OF THE PROJECT	Implementation of Wireless Large Scale Organization.			
STUDENT NAMES/ USN/ PHONE/ MAIL ID	Kishan N S	1ds21cs407	7204848259	kishan8ns200@gmail.com
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PROJECT TIMELINE (Tentative Start date- End Date)	sep 2022 to Jan 2023			
PROJECT GUIDE	Dr. Nagaraj J			
PROJECT - DOMAIN	Computer Network			
INTRODUCTION	Wireless networking is a method by which homes, telecommunications networks and business installations avoid the costly process of introducing cables into a building, or as a connection between various equipment locations.			
APPLICATION/S	- Satellite Communication. Satellite communication is a crucial form of wireless communication. ... - Infrared Communication. - Broadcast Radio. - Microwave Communication. - Wi-Fi. - Mobile Communication Systems. - Bluetooth Technology.			
CHALLENGES IN THE CURRENT WORK	- Attenuation or Signal Loss. The farther they travel, the more wireless signals begin to lose their strength. - Movement/Time Variance. - Reach. - Network Densification. - Multipath Fading/Interference.			
PROJECT PROBLEM STATEMENT	The implementation of the wireless channel especially in an environment in large scale organization where there are many objects that can reflect the signal			

OBJECTIVES OF THE PROJECT	- Increased efficiency. Improved data communications lead to faster transfer of information within businesses and between partners and customers. - Access and availability. - Flexibility. - Cost savings. - New opportunities. - Security. - Installation problems. - Coverage.
PLATFORM THAT WILL BE USED FOR IMPLEMENTATION (Name the hardware and Software tools and Development Environment that you will be using for implementation)	HW: personal computer SW: cisco packet tracer
Demonstration Details	in CISCO tacket tracer and Power point presentation
ARE THERE ANY STANDARD DATASETS AVAILABLE	No
PROJECT RISKS (IF ANY)	- Configuration Problems (Misconfigurations or Incomplete Configurations) - Denial of Service. - Passive Capturing. - Rogue (or Unauthorized/Ad-Hoc) Access Points. - Evil Twin Attacks. - Hacking of Lost or Stolen Wireless Devices. - Freeloading.
REFERENCES	**[1]Social Network Aware Device-to-Device Communication in WirelessNetworks** Yanru Zhang;Erte Pan;Lingyang Song;Walid Saad;Zaher Dawy;Zhu Han https://ieeexplore.ieee.org/document/6847726 [2]**Implementation of campus-wide wireless network services using ATM, virtual LANs, and wireless basestations** J.W. Lockwood WCNC. 1999 IEEE Wireless Communications and Networking Conference (Cat https://ieeexplore.ieee.org/document/7566211