

## **Design and Implementation of Campus Wireless Networking for Sharing Resources in Federal Polytechnic Bauchi, Bauchi State, Nigeria**

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**Abstract :** This paper will serve as a guide to good design and implementation of wireless networking for campus institutions in Nigeria. It can be implemented throughout the primary, secondary and tertiary institutions. This paper describe the some technical functions, standard configurations and layouts of the 802.11 wireless LAN(Local Area Network) that can be implemented across the campus network. The paper also touches upon the wireless infrastructure standards involved with enhanced services, such as voice over wireless and wireless guest hotspot. The paper also touch the benefits derived from implementing campus wireless network and share some lights on how to arrive at the success in increasing the performance of wireless and using the campus wireless to share resources like software applications, printer and documents.

**Keywords :** networking, standards, wireless local area network (WLAN), radio frequency (RF), campus

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