SIMATS ENGINEERING

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Course Code : CSA0764   **Slot:** A
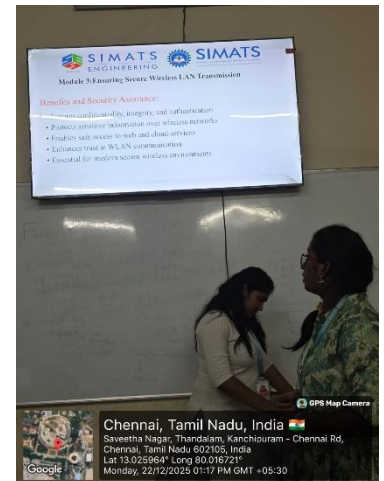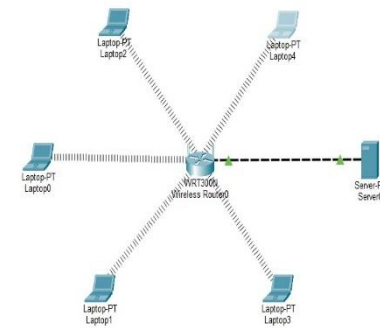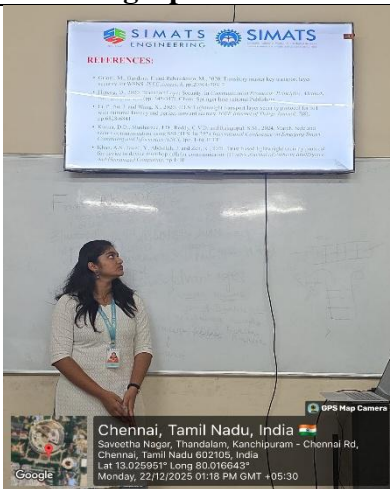
Course Name : Computer Networks for a Game Server

Course Faculty : DR.K.SENTHIL & DR.P.RAJARAM

Project Title: SECURE DATA COMMUNICATION IN WIRELESS LANs USING TRANSPORT LAYER SECURITY (TLS)

Module Photographs:

Project Description:

This project titled **"Secure Data Communication in Wireless LANs Using Transport Layer Security (TLS)"** focuses on improving the security of wireless communication by implementing the TLS protocol in a WLAN environment. In this project, I designed and configured a wireless network setup where secure communication is established between a client and a server using TLS encryption. I studied the TLS handshake process and implemented secure data transmission to ensure confidentiality, data integrity, and authentication over the wireless channel. I also analyzed the difference between normal wireless communication and TLS-secured communication by observing how data is protected from unauthorized access and attacks such as eavesdropping and data tampering. Through this work, I demonstrated the practical importance of TLS in securing wireless LANs and gained hands-on experience in network security concepts and secure communication protocols.

Student Signature   **Guide Signature**