



**KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)**

**Re-accredited by NAAC with A⁺ Grade - 4th cycle,
College of Excellence – UGC
29th Rank among Colleges in NIRF 2023
Coimbatore - 641 029, Tamil Nadu, India**



DEPARTMENT OF COMPUTER SCIENCE (Aided)

A Seminar and Demonstration -Demystifying Networking Essentials

**Supported by
DBT STAR COLLEGE SCHEME**

REPORT

Name of the Event	Demystifying Networking Essentials
Date	12-10-2023
Time	10.00 A.M
Resource Person With Designation	Mr.B.Meinathan, Technical Consultant, Macrovision Telenet, Karnataka-560 009.
Venue of the Programme	LAB -VI
Objectives of the Programme	1.To make the students understand the essentials of networking . 2.To understand the functions of switches and routers. 3.To expose the students to live demonstrations of the functions of switches and routers.
Outcome of the Programme	● Imparted knowledge about Routers and Switches. ● Different types of routers, namely Wired routers,Wireless routers, Core routers ,edge routers and VPN routers were discussed. ● The functions of switches and routers were narrated clearly.The working methodology of routers and switches was elucidated.

	● A live demonstration of connecting switches and routers was given. ● The characteristics of various types of hackers, namely Black Hat Hacker, Gray Hat Hacker, White Hat Hacker, were discussed. ● Demonstration was given about how the WiFi passwords are seen in the command prompt and how to access them. ● Security features of mobile phones and apps(Applications) were well narrated.
Number of Beneficiaries with Class (Both Students and Faculty)	Students: 47 III B.Sc students – 47 Total Number of Beneficiaries: 47

Report in detail:

The resource person Mr.B.Meinathan, Technical Consultant, Macrovision Telenet, Karnataka explained about the essentials of networking. He narrated the Uses of Routers and Switches. Different types of routers, namely Wired routers, Wireless routers, Core routers, edge routers and VPN routers were discussed. He clearly explained the functions of switches and routers. The working methodology of routers and switches was elucidated.

Students acquired practical knowledge through the live demonstration of connecting switches and routers. The characteristics of various types of hackers, namely Black Hat Hacker, Gray Hat Hacker, White Hat Hacker, Blue hat Hacker and Red hat Hacker were discussed. Black hat hackers are criminals who break into computer networks with malicious intent. They may also release malware that destroys files, holds computers hostage, or steals passwords, credit card numbers, and other personal information.

A gray hat is a computer hacker or computer security expert who may sometimes violate laws or typical ethical standards, but usually does not have the malicious intent typical of a black hat hacker. White hat hackers use their capabilities to uncover security failings to help safeguard organizations from dangerous hackers. They can sometimes be paid employees or contractors working for companies as security specialists who attempt to find gaps in security. Blue hat hackers are good hackers dedicated to discovering and fixing security vulnerabilities in computer

systems. Their efforts help organizations enhance their security posture, protect against malicious threats and comply with regulations.

Red hat hackers fall between white hat and gray hat hackers. While taking matters into their own hands, such as gray hat hackers do, red hats don't aim to hurt companies for societal causes. They only wish to improve cyber security health while purging threats.

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