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Networks Division

The Servers and Networks sector at Al-Ma'moun University College is the cornerstone of its digital transformation, providing the necessary infrastructure for running administrative systems, educational platforms, and student databases. This sector is managed by the Information Technology Department to ensure service continuity and information security.

1. Server Infrastructure

The university relies on a small data center comprising a group of servers that perform specialized functions.

2. Networking Topology

The network at Al-Ma'moun University is designed to ensure comprehensive coverage and high speed:

Wired LAN (Local Area Network): Fiber optic cables connect buildings, and CAT6/7 cables connect offices and laboratories, ensuring data transfer speeds of up to 1 Gbps.

Wireless LAN (Wireless Local Area Network): Professional access points are distributed to cover halls and outdoor areas, while isolating the guest network from the administrative network.

Active Devices: Using switches and routers from global manufacturers (such as Cisco or Ubiquiti) to intelligently manage data traffic.

3. Security System: To protect the infrastructure from cyber threats, the following is implemented:

Firewall

Identity Management System: Providing single sign-on accounts for faculty and students to access available resources.

VLAN Segmentation: Isolating the camera network from the administration network and the student network to reduce security risks.

4. Supervision and Maintenance

Monitoring: Using software to monitor network and server performance 24/7 to diagnose malfunctions before they occur.

Technical Support: A dedicated team for rapid response to any service interruptions within academic departments or laboratories.

Summary

Al-Ma'moun University invests in regularly upgrading its servers and networks to keep pace with the increasing number of students and the expansion of its electronic services, making it a smart learning environment that supports quality standards and academic accreditation requirements.

Note: This report reflects the general structure followed in reputable universities, and the precise technical details may vary based on annual updates from the university's IT department.