COIT13236 – Cyber Security Project

**KN University Network Design**

1. **IoT Integration Plan**

Group 02

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# IoT Integration Plan

**IoT Integration Plan:**

Integrate IoT devices to upgrade student and campus experiences while keeping up with network security and execution.

**Components:**

**IoT Device Types:**

Smart Lighting: Computerized and energy-proficient lighting frameworks.

Natural Sensors: Temperature, humidity, and air quality sensors.

Smart Lock Frameworks: Access control for buildings and rooms.

Study hall management: Smart projectors, intuitive whiteboards, and attendance systems.

**Network Division:**

Dedicated IoT VLAN: Disconnect IoT traffic from general network traffic to improve security and execution.

Firewall Rules: Carry out rules to confine communication between IoT gadgets and basic network segments.

**Information Collection and Management:**

IoT Gateway: Gather information from IoT gadgets and forward it to the data center or cloud.

Data Storage: Utilize databases or cloud administrations for putting away IoT information.

**Safety measures:**

Device Verification: Guarantee all IoT gadgets are validated prior to getting to the network.

Encryption: Encrypt data transmitted by IoT gadgets to safeguard against eavesdropping.

**Checking and Maintenance:**

IoT Monitoring Apparatuses: Execute tools to monitor the wellbeing and execution of IoT gadgets.

Regular Updates: Keep IoT gadget firmware and programming exceptional to address weaknesses.