



# نيجيريا جامعة الحكمة، إيلورن،

AL-HIKMAH UNIVERSITY, ILORIN, NIGERIA

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....a tradition of learning for wisdom and morality

**FACULTY OF NATURAL AND APPLIED SCIENCES  
DEPARTMENT OF COMPUTER SCIENCE**

**BSc Cyber Security**

**2023/2024 Session**

**COURSE OUTLINE**

**COURSE CODE: CYB 309**

**COURSE TITLE: SYSTEMS SECURITY**

**CREDIT UNITS: 2**

**LECTURE DAY(S): Fridays; 8am – 10am**

<b>LECTURE PERIOD</b>	<b>TOPIC</b>	<b>COURSE LECTURER(S)</b>
Week 1	Introduction to System Security ✓ System ✓ Safety ✓ Security	R.D. AZEEZ
Week 2	Overview of system security principles ✓ Confidentiality ✓ Integrity ✓ Availability Threat Modeling	R.D. AZEEZ
Week 3	Risk Assessment Access Control Models and Mechanisms	R.D. AZEEZ
Week 4	The Three (3) As (AAA) Authentication Methods Protocols Implementation of access control and policies	R.D. AZEEZ
Week 5	Security Threats ✓ Program Threats ✓ System and Network Threats ✓ Cryptography	R.D. AZEEZ
Week 6	Cryptography for System Security ✓ Basics of cryptographic Algorithms ✓ Encryption, Decryption, and Key Management	R.D. AZEEZ
Week 7	<b>Continuous Assessment</b>	
Week 8	Network Security ✓ Network threats and countermeasures ✓ SS/TLS	R.D. AZEEZ

	Configuring secure networks	
Week 9	Security Policies and Incident Response <ul style="list-style-type: none"> <li>✓ Security Development</li> <li>✓ Incident response planning</li> <li>✓ Incident response execution</li> </ul> Secure SDLC	R.D. AZEEZ
Week 10	Secure Coding practices <ul style="list-style-type: none"> <li>✓ Blockchain Technology</li> <li>✓ IoT Security</li> </ul>	R.D. AZEEZ
Week 11	<b>Continuous Assessment</b>	
Week 12	<b>Revision</b>	
Week 13	<b>Revision</b>	
Week 14	<b>Examination Period</b>	
Week 15	<b>Examination Period</b>	