
SUBJECT: DIGITAL TECHNOLOGIES
CLASS LEVEL: SENIOR SECONDARY SCHOOL 1 (SS1)
ACADEMIC YEAR: FULL SESSION
DURATION PER WEEK: 2–3 PERIODS

 [First Term Scheme of Work \(SS1\)](#)

Week 1: Introduction to Senior Secondary ICT & Digital Tech

- Objectives: Review JSS knowledge; explain importance of digital literacy in higher studies and careers.

Week 2: Computer Systems Review

- Objectives: Explain computer architecture (input, processing, storage, output).

Week 3: Number Systems in Computing

- Objectives: Convert between binary, decimal, octal, and hexadecimal.

Week 4: Logic Gates and Digital Circuits

- Objectives: Explain AND, OR, NOT, NAND, NOR gates with truth tables.

Week 5: Data Representation in Computers

- Objectives: Explain bits, bytes, ASCII, Unicode; represent text and images.

Week 6: Operating Systems (Advanced Concepts)

- Objectives: Types of OS (batch, multitasking, real-time); role in system management.

Week 7: Word Processing Advanced Skills

- Objectives: Use advanced formatting (styles, references, mail merge).

Week 8: Spreadsheet (Data Analysis & Functions)

- Objectives: Apply advanced formulas (IF, VLOOKUP, HLOOKUP).

Week 9: Presentation Tools for Professional Use

- Objectives: Create interactive presentations with hyperlinks, embedded videos.

Week 10–11: ICT in Society

- Objectives: Discuss ICT applications in business, health, government, and security.

Week 12: Revision & Examination

Second Term Scheme of Work (SS1)

Week 1: Revision of First Term Work

Week 2: Computer Networking Fundamentals

- Objectives: Explain LAN, WAN, MAN; advantages of networking.

Week 3: Networking Devices and Topologies

- Objectives: Identify routers, switches, hubs; explain star, bus, mesh topologies.

Week 4: Internet Technologies

- Objectives: Explain IP addresses, DNS, hosting, and web servers.

Week 5: Web Development Basics (HTML & CSS)

- Objectives: Build webpages using HTML structure and basic CSS styling.

Week 6: Database Concepts (Intro)

- Objectives: Define DBMS, records, fields, keys; explain importance in data management.

Week 7: Practical Database Work

- Objectives: Create simple database tables; input and retrieve data.

Week 8: Python Programming (Intro)

- Objectives: Write simple scripts using variables, input, and output.

Week 9: Control Structures in Python

- Objectives: Apply if...else, loops, and simple problem-solving tasks.

Week 10–11: Cybersecurity Awareness

- Objectives: Explain threats (viruses, phishing, ransomware); discuss safety practices.

Week 12: Revision & Examination

Third Term Scheme of Work (SS1)

Week 1: Revision of Second Term Work

Week 2: Emerging Technologies

- Objectives: Discuss AI, IoT, Blockchain, Robotics, Cloud Computing.

Week 3: Mobile App Development (Intro)

- Objectives: Create simple apps with block-based or low-code platforms.

Week 4: Advanced Multimedia Tools

- Objectives: Edit video, audio, and graphics for communication.

Week 5: ICT Project Management Basics

- Objectives: Explain planning, execution, and monitoring of ICT projects.

Week 6: Data Science Fundamentals

- Objectives: Explain data collection, cleaning, analysis, and visualization.

Week 7: Entrepreneurship in Digital Technology

- Objectives: Discuss freelancing, software startups, online business opportunities.

Week 8: ICT and National Development

- Objectives: Discuss the role of ICT in Nigeria's economy and governance.

Week 9: Capstone Project

- Objectives: Students develop an integrated project (coding, presentation, report).

Week 10: General Revision & Final Examination



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