
Computer Hardware and GSM Repairs – SS1 Scheme of Work

First Term

Week 1

- Introduction to Computer Hardware and GSM Repairs
- Meaning, scope, and importance in ICT development

Week 2

- History of computers and GSM technology in Nigeria

Week 3

- Classification of computers (micro, mini, mainframe, super) and their uses

Week 4

- Basic computer hardware components (input, output, storage, processing units)

Week 5

- Identification and functions of hardware parts (motherboard, CPU, RAM, HDD, power supply)

Week 6

- Tools and equipment for computer and GSM repairs

Week 7

- Safety precautions in computer and GSM repair workshops

Week 8

- GSM technology overview: meaning, evolution, and importance

Week 9

- GSM hardware components (screen, battery, board, charging port, speaker, microphone)

Week 10

- Practical: Identification and labeling of hardware and GSM parts

Week 11

- Revision

Week 12

- Examination
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Second Term

Week 1

- Computer system assembly – step-by-step process

Week 2

- Disassembly and reassembly of a personal computer

Week 3

- Common computer hardware faults (booting errors, overheating, power failures)

Week 4

- Troubleshooting techniques in computer repair

Week 5

- Introduction to computer networking (LAN, WAN, Wi-Fi basics)

Week 6

- GSM hardware faults (screen damage, charging problems, battery drain)

Week 7

- GSM software faults (freezing, virus infection, configuration errors)

Week 8

- Flashing of GSM phones – meaning, tools, and procedures

Week 9

- Practical: Assembly and disassembly of a desktop computer

Week 10

- Project: Diagnose and repair a faulty computer or phone in school lab

Week 11

- Revision

Week 12

- Examination
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Third Term

Week 1

- Operating systems installation (Windows, Linux, Android basics)

Week 2

- Driver installation and updates for hardware components

Week 3

- Preventive maintenance of computers (cleaning, antivirus, updates)

Week 4

- Preventive maintenance of GSM phones (battery care, updates, casing protection)

Week 5

- Introduction to soldering techniques for hardware and GSM repair

Week 6

- Use of multimeter in testing hardware and GSM components

Week 7

- Practical: Soldering practice on circuit boards

Week 8

- Practical: Repair of a common GSM fault (charging or audio problem)

Week 9

- Mini-project: Maintenance of school ICT lab computers

Week 10

- Field trip: Visit to a computer service center or GSM repair workshop

Week 11

- Revision

Week 12

- Examination
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Computer Hardware and GSM Repairs – SS2 Scheme of Work

First Term

Week 1

- Review of SS1 concepts

Week 2

- Advanced computer hardware (graphic cards, SSDs, servers)

Week 3

- BIOS/UEFI settings and troubleshooting

Week 4

- Power supply systems (UPS, stabilizers, inverters) and their maintenance

Week 5

- GSM network basics (2G, 3G, 4G, 5G)

Week 6

- GSM communication principles (SIM cards, IMEI, signal transmission)

Week 7

- GSM repair tools (flashing boxes, software tools, screw kits, separators)

Week 8

- Practical: Formatting and flashing Android devices

Week 9

- Common GSM ICs and chips and their functions

Week 10

- Project: Students troubleshoot a faulty GSM phone with guidance

Week 11

- Revision

Week 12

- Examination
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Second Term

Week 1

- Virus detection and removal in computers and GSM phones

Week 2

- Data recovery techniques in computers and phones

Week 3

- Backup methods (cloud storage, external drives, SD cards)

Week 4

- Advanced soldering techniques in GSM board repairs

Week 5

- GSM unlocking methods (SIM unlock, pattern unlock, FRP bypass)

Week 6

- IMEI repair and legal considerations

Week 7

- GSM antenna and network signal faults – diagnosis and repair

Week 8

- Practical: Screen replacement and touchpad repairs

Week 9

- Practical: Network fault troubleshooting on a GSM phone

Week 10

- Project: Repair of a GSM hardware fault in the workshop

Week 11

- Revision

Week 12

- Examination
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Third Term

Week 1

- Laptop hardware repairs (keyboard, screen, hinges, batteries)

Week 2

- GSM charging system troubleshooting

Week 3

- GSM audio system troubleshooting (microphone, earpiece, loudspeaker)

Week 4

- GSM camera and sensor troubleshooting

Week 5

- Software tools for GSM repair (SP Flash Tool, Odin, Miracle Box)

Week 6

- ICT entrepreneurship: Starting a repair business

Week 7

- Customer service in ICT repair businesses

Week 8

- Record keeping in ICT service businesses

Week 9

- Project: Students draft a simple business plan for a repair shop

Week 10

- Revision

Week 11

- Examination

Computer Hardware and GSM Repairs – SS3 Scheme of Work

First Term

Week 1

- Review of SS1–SS2 topics

Week 2

- Advanced troubleshooting of computer hardware and software

Week 3

- Advanced troubleshooting of GSM hardware and software

Week 4

- Networking devices (routers, switches, modems) and setup basics

Week 5

- Cybersecurity awareness in ICT repairs

Week 6

- Data privacy and protection for customers

Week 7

- Practical: Network setup in a small office environment

Week 8

- Case study: Common ICT repair challenges in Nigeria

Week 9

- Project: Diagnose and repair a complete ICT setup (PC + GSM)

Week 10

- Revision

Week 11

- Examination
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Second Term

Week 1

- Costing and pricing of repair services

Week 2

- Marketing ICT repair business in Nigeria

Week 3

- Funding opportunities for ICT businesses

Week 4

- ICT entrepreneurship success stories in Nigeria

Week 5

- Business ethics in ICT repair services

Week 6

- Legal issues in GSM unlocking and repair

Week 7

- Practical: Prepare a quotation for ICT repair services

Week 8

- Project: Students develop a marketing strategy for an ICT business

Week 9

- Mini-exhibition: Showcase of repaired ICT devices

Week 10

- Revision

Week 11

- Examination
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Third Term

Week 1

- Revision of SS1–SS3 concepts

Week 2

- Mock WAEC/NECO ICT practicals

Week 3

- Future of ICT repair in Nigeria – opportunities and challenges

Week 4

- Emerging trends in computer and GSM technology (AI, IoT, 6G, foldable devices)

Week 5

- Career opportunities in ICT hardware and mobile phone repair

Week 6

- Student presentation: “How to Start My Own ICT Repair Business”

Week 7–8

- Comprehensive revision of core topics

Week 9–10

- Mock examinations

Week 11–12

- WAEC/NECO Examinations
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