The course curriculum is designed and prepared by E&T.

**MOBILE PHONE REPAIRING**

1st Month  Introduction Basic Electronics.

**Practical on Electronics components**

- Conductor, insulator
- Resistor
- Capacitor
- Diode
- Transistor
- Led
- Crystal
- Fuse
- On/off Switch
- IC & Protector.

**Fault testing and measuring through**

- Multimeter and other Measuring Device.

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**MOBILE PHONE REPAIRING**

### Familiarization with tools

- Tweezer
- Cutter
- Nipper
- Opener

### Introduction of Mobile Phone.

**Comparison with Basic Phone**

- Land Line Tele Phone
- Cord Less Telephone
- Long range telephone
- WLL Phone
- CDMA Mobile Phone
- GSM Mobile Phone

### Soldering & Desoldering

- PTH Type Components
- SMD Type Components

### Batteries & chargers.

**Battery Ni-CD**

- Ni–MH
- Li- Ion
- Li Ion Polymer

**Charger Type**

- SMPS Type
- Transformer

**SIM architecture.**

- What is SIM?
- What are the PIN and PUK?
- What is an IMEI?
- How can I find my IMEI?
- What is an IMSI (international mobile subscriber identity)?
- What is a TIMSI (temporary IMSI)?
- What are the PIN and PUK?
- How do I change my PIN and PUK?
S.M.D. rework station practice on mobile phone circuit board.
Removing & Installation of SMD Type IC & other Components

Phone Assembling & Disassembling.
General MMI repair practice. Ringer, Speaker, Microphone, camera, Vibrating Motor Checking & replacement Technique

Different fault finding e.g.
Ringer fault, Speaker fault, Microphone fault, Camera fault, flex cable, Lcd, Key Pad, Liquid damage, Set Dead, network fault, No charging etc

Parts replacing with S.M.D. Rework Station
SMD Resistor, Capacitor, Diode, transistor, Led, IC, Net RFPA, Joystick, Charging Connector, Battery Connector, Lcd Connector, LCD, other Switch And Connectors.

Handling Phone Operating Software
Phone Menu & Option, Contact, Tones, Message Gallery

BGA (Ball I.C.) practice on Motherboard.
BGA IC resoldering Removing Ball Making IC Installing

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IIIrd Month

**Practice of circuits tracing**
Charging, Audio, Ringer, Vibrator Motor, Display, Keypad, Power, Memory, FM Radio, SIN, MMC, Camera, IR DA, Bluetooth, Network Section

**Other Important Tips and Notes.**
Jumper connections & Fault finding tips

**Solutions of students problems**
Revision and Class Test

IVth Month

**Introduction to Software and Computer.**

**Learning on Windows Operating System**
Mouse Operation & key Board Operation
Key Board Type Practice Through Word Pad. Mouse Practice on Paint Brush

**Downloading**
Ring Tones, Sing tone, Video Clip, Animation, Morphing, Audio song, Video song, Application, Antivirus, Games through

IR DA
BLUE TOOTH
MMC RW
Data Cable

**Handling Service / Repair Software**
Flashing technique
Software Factory Resetting
IMEI Repairing
Phone Formatting

Unlocking of various security locks, SIM

Flashing of various mobile phones.

Repairing technique of all types of software related faults through Computer

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Computer Hardware for 7 months (4+3) Mobile course

Advanced repairing technique

a. Practice on phone Hardware & Software Repairing.
b. Handling various types Advanced repairing software.
c. Handling various types' Multimedia software.
d. Various Circuit Diagram tracing and fault finding.

Hardware components used to make a computer

a. Function & Types of External Peripherals
   1. Power Supply Unit
   2. Input Device
   3. Output Device

b. Function & Types of Internal Peripherals
   1. Cabinet
   2. Motherboard
   3. CPU
   4. Add on Card
   5. Memory
   6. Hard disk
   7. CD Drive/RW, DVD Drive/ RW, Combo drive.
   8. Floppy Drive
   9. Data cable

c. PC Assemble and Disassemble technique.

d. Preventive Maintenance & Trouble Shooting.

Software Used after Assemble a PC

1. Bios Setup.
3. Mother Board and other Device Driver Installation.
4. Anti-virus Software Installation and Virus Scanning
5. Other Important Software Installation for Downloading
7. Installation Technique of Data Cable Driver.
8. Installation Technique of Flasher Software and Flasher Box Driver.

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