Course Outline & Syllabus

MOBILE PHONE REPAIRING

The course curriculum is designed and prepared by

eT&T

Ist Month   Introduction Basic Electronics.

Practical on Electronics components

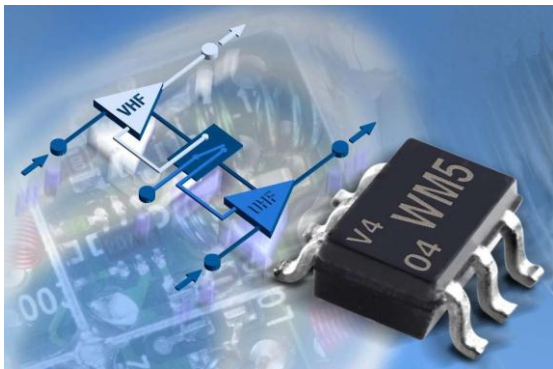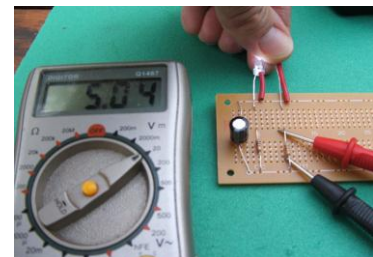Conductor, insulator
Resistor
Capacitor
Diode
Transistor
Led
Crystal
Fuse
On/off Switch
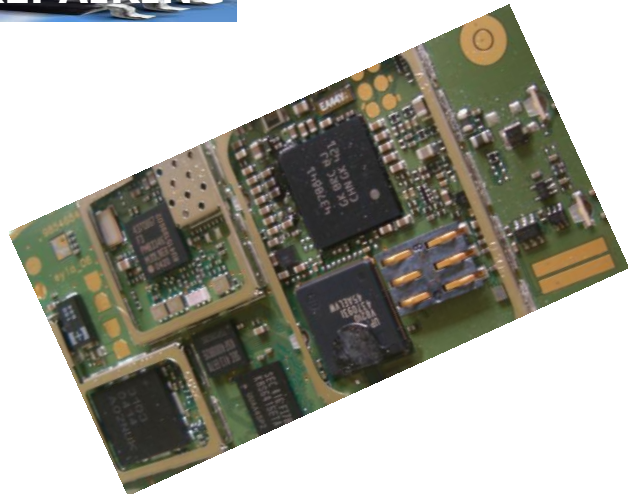IC & Protector.

Fault testing and measuring through

Multimeter and other Measuring Device.

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Familiarization with tools

Tweeser

Cutter

Nipper

Opener

Soldering & Desoldering

PTH Type Components

SMD Type Components

IInd Month   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

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 are locking and unlocking?
What is an IMEI?
How can I find my IMEI?
What is an IMSI (international mobile subscriber identity)?
What is a TIMSI (temporary IMSI)?
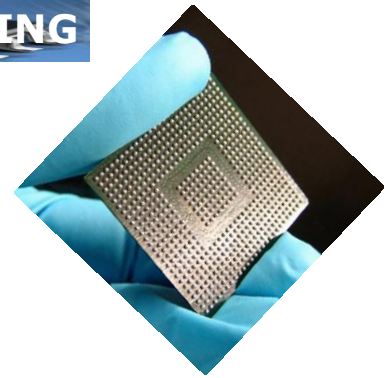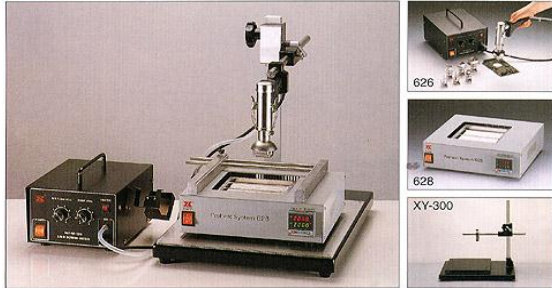What are the PIN and PUK?
How do I change my PIN and PUK?

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MOBILE PHONE REPAIRING

S.M.D. rework station practice on mobile phone circuit board.

Removing & Installation of SMD Type IC & other Components

626
628
XY-300

Phone Assembling & Disassembling.

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

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.

Different fault finding e.g.

Ringer fault, Speaker fault, Micro phone fault, Camera fault, flex cable , Lcd, Key Pad,Liquid damage, Set Dead**, network fault, No charging etc**
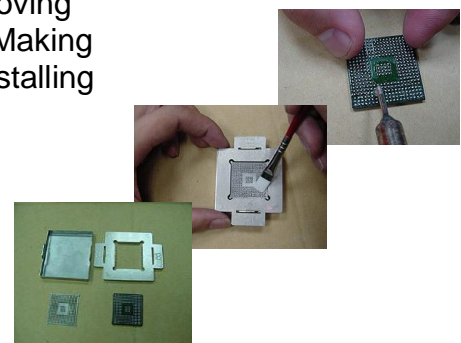

Handeling Phone Operating Software

Phone Menu & Option, Contact, Tones, Message Gallery

BGA (Ball I.C.) practice on Motherboard.

BGA IC resoldering
Removing
Ball Making
IC Installing
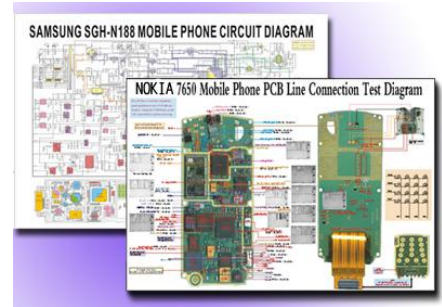

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IIIrd Month

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.
9. Floppy Drive
10. Data cable

c. PC Assemble and Disassemble technique.

d. Preventive Maintenance & Trouble Shooting.

Software Used after Assemble a PC

1. Bios Setup.
2. Hard Disk partition & Windows OS Installation.
3. Mother Board and other Device Driver Installation.
4. Anti-virus Software Installation and Virus Scanning
5. Other Important Software Installation for Downloading
6. Multimedia Software Installation for Making Ring tone, Sing tone, Video Clip, Animation.
7. Installation Technique of Data Cable Driver.
8. Installation Technique of Flasher Software and Flasher Box Driver.

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