

- **Diploma in mobile engineering**
 - EL+ Electronics plus
 - Mobile Engineering
- 120HRs
90Hrs
- **EL+ Electronics+**
 - **ANALOG**
 - Soldering
 - Using Multimeter & Trainer kit
 - Resistor & Resistor Connection
 - Current & Voltage
 - Ohm's Law
 - Voltage Rise & Voltage Drop
 - Inductor & Capacitor
 - Using Oscilloscope
 - Transformer
 - Semiconductor
 - PN Junction & Diode
 - Half way rectifier
 - Full Way Rectifier
 - Power Supply
 - Transistor
 - Power Supply introduction to SMPS
 - **DIGITAL**
 - Number System Conversions
 - Basic Logic Gates
 - Half Adder & Half Subtractor
 - Multiplexer & De-multiplexer
 - Decoder
 - Encoder
 - SR Flip - Flops
 - D Flip -Flop
 - JK Flip-Flop
 - Multivibrator
 - Binary Arithmetic
 - Boolean Algebra
 - Flip-Flop
 - Edge Triggered JK Flip Flop
 - JK Master / Slave
 - Memories
 - Microprocessor
- **Mobile service engineering**
 - Module I Basic Electronics
 - Basic Electronics.
 - Introduction of Mobile Component.
 - Practical on Electronic Components & Testing.
 - Soldering with iron.
 - Multi-meter, CRO, Bread Board.
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 - How to use (SMD)
 - PCB, General Purpose PCB.
 - Checking Of Parts (Speaker, Buzzer, Earphone, PFO).

- **Module II Mobile Components**
 - Introduction of Mobile Communication.
 - Introduction to Mobile Phones.
 - Cellular Mobile Telephone Service.
 - Service Information of Mobile Phone.
 - (Base Band Module, Base Band)
 - Identification Of different IC's
 - Supply Voltage Regulator, Powering UP & Down the Phone.
 - Receiver, Transmitter, Headset Detection.
 - Memory, SRAM, EEPROM, FLASH.
 - Display Circuit / Monitor.
 - Comparison with computer.
 - Batteries and charger.
 - SIM Card.
 - Network Section(PFO, FDK, Antenna, Antenna Switch).
 - Chip level and BGA training.
 - GSM Codes.
 - Block Diagram of different phones.
 - Ball IC Practice.
 - How to fix the Ball IC.
 - Checking of PCB Prints.
 - Introduction of different categories of mobile phones.
 - Smd Rework Station Practice on Working Phones.
 - Parts Replacing & Checking.

- **Module III Trouble Shooting**
 - Fault finding Procedure.
 - SIM Card Faults.
 - Network Problem.
 - Charging And Battery Problems.
 - Power ON/OFF Problems.
 - General Faults.
 - Display Problems.
 - Software Problems.
 - Keyboard Problems.
 - Motherboard Tracing & Trouble shooting.

- CM-102 Mobile Software and Trouble Shooting
 - Use of Logo Manager.
 - Identification of Dongle Switch and Interface Cable.
 - Identify how to connect different type of Interface cable with different mobiles.
 - Unlock.
 - Flashing.
 - Blue tooth.
 - Loading Games.
 - Video clips.
 - Blacklisting Software.
 - Remote Software.
 - UFS3.