



JP TECH INSTITUTE

AN INSTITUTE FOR DEVELOPING SKILL

ISO:9001-2015

LAPTOP REPAIRING COURSE

Learn about All Basic Electrinios Parts of Laptop & Desktop, Complete Schematic Diagram & Board Viewer, Complete Solution of BIOS Programming & Editing, Advance Level Training on BGA Machine, How to use I/O Programmer?, Data & Signal Level Check with DSO/CRO Machine, Laptop & Desktop Assembling and disassembling, GFX to NON-GFX Conversion, All types of Problems Solution for Laptop & Desktop, Latest Generation Motherboard Repairing Tricks, Hidden Trick of Laptop & Desktop Repairing , Signal, Data, Frequency & Clock Level Training, Dead Laptop & Desktop Repairing, Water Damage Laptop & Desktop Repairing, Complete IC Chip Level Training

LAPTOP REPAIRING COURSE



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SYLLABUS

➤ Basic Electronics

❑ Introduction of (Volt, current, Watt, Ohms)

❑ Introduction of (AC/DC)

❑ How to Use Digital Multimeter

❑ Identification of Electronics Components

- Resistor, Capacitor, Transistor, Mosfet, Diode, Crystal, IC, Transformer, Fuse, Jumper, Thermistor, Switch, Coil etc.

❑ Resistor

- Working Concept of Resistor
- Types of Resistor
- Symbol, Unit, Denoting Letter of Resistor
- Resistor Color Coding Concept
- SMD Resistor Value
- How to test Resistor on motherboard

❑ Capacitor

- What is Capacitor?
- Types of Capacitor.
- What is Symbol, unit and Denoting Letter of Capacitor
- Series and Parallel concept of Capacitor
- Inboard and outboard Capacitor Testing

❑ Diode

- Working Concept of Diode
- How many types of Diode
- Denoting Letter and Symbol of Diode
- Bridge Rectifier Diode Concept
- Testing of all types of Diode on motherboard

❑ Transistor

- Working concept of Transistor on motherboard
- Transistor Types
- What is Symbol and Denoting Letter of Transistor
- SMD and Normal Transistor Identification
- Onboard Testing of SMD and Normal Transistor

❑ Coil

- Identification of Difference types of Coil
- Working of Coil (Inductor)
- Types of Coil
- Symbol, unit, Denoting Letter Concept of Coil
- Ok Testing of all types of Coil

❑ Mosfet

- Concept of SMD Mosfet
- Working concept of 3 pin, 6 pin, 8 pin Mosfet on motherboard
- Types of Mosfet
- What is Denoting letter and symbol of Mosfet
- Gate, Drain, Source pin Details
- Onboard Testing of all Types of Mosfet

❑ IC / Chip

- Working Concept of IC/Chip
- Identification of Difference Types of IC
- IC ok Testing on board

❑ Transformer

- Working Difference Types of Transformer
- Working of Transformer
- Symbol, Denoting Letter Concept of Transformer
- Testing Concept of Transformer
- Onboard Testing of SMD and Normal Transistor

❑ Crystal

- Working Concept of Crystal
- RTC Crystal
- Symbol, unit, Denoting Letter Concept of Crystal
- Testing of Crystal by Multimeter and CRO Machine

❑ Fuse

- Working Concept
- Symbol, Denoting Letter Concept of Fuse
- Testing and Repair Concept of Fuse.

❑ Thermistor

- Types of Difference Thermistor
- Working of Thermistor
- Testing Concept of Thermistor
- NTC, PTC Thermistor

➤ **Soldering & De-Soldering Practice**

- How to remove all motherboard components

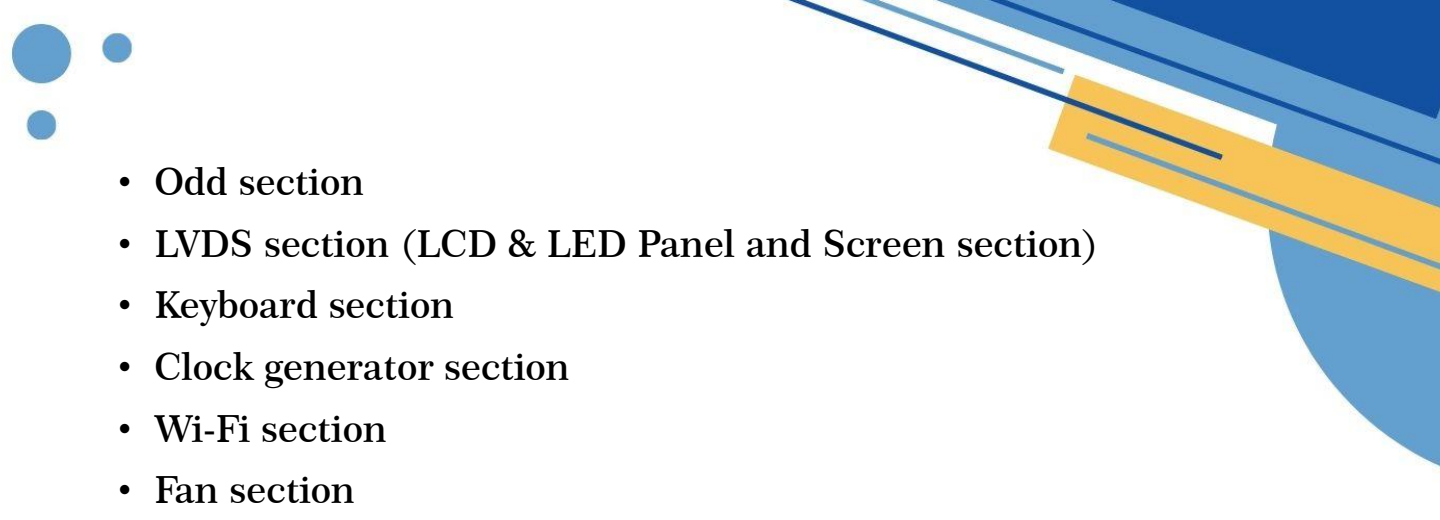
Like- capacitor, transistor, mosfet, crystal, coil, diode, fuse etc.?

- How to fix all electronics components on motherboard easily?
- How to remove and fix all types of IC/chip from motherboard?
- How to remove and fix all types of port, connector, slot, socket


Like -VGA Port, USB Port, ps2 port, SATA connector, CMOS battery.

➤ **Tracing of Laptop and Desktop Motherboard**

- Volt in section.
- Step down section
- VRM section
- Ram section
- Chip section (Graphic Section, North Bridge, South Bridge Section)
- Battery section (Charging & Discharging Section)
- I/O (Input-Output) section
- Bios section
- LAN section
- Sound section
- USB section
- VGA section
- SATA section
- 3.3v, 5v section
- 1.2v, 1.8v, 1.5v, 2.5volt section

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- Odd section
 - LVDS section (LCD & LED Panel and Screen section)
 - Keyboard section
 - Clock generator section
 - Wi-Fi section
 - Fan section
 - RTC section
 - Soc section
 - Adaptor circuit
 - Sensor circuit3
 - Intel GFX section
 - Touch pad section
 - Camera section
 - SSD section
 - GFX Section

➤ **ASSEMBLING & DISASSEMBLING**

- Desktop Assembling and disassembling (For Fresher Students)
 - Laptop Assembling and Disassembling process
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➤ **SMPS Repairing**


- How to check SMPS on and off condition?
- How to check SMPS all voltage supply track?
- How to check and repair 3.3v,5v,12v, -12v, SB 5v, PG 5v, PS 5volt
- SMPS problems repair
 - SMPS dead condition repair
 - SMPS power drop problem
 - SMPS restarting problem
 - SMPS suddenly power off problem

➤ **Adaptor / Charger Repairing**

- How to check adaptor on and off condition?
- How to repair dead condition laptop adaptor?
- How to check adaptor high low voltage problem?
- How to check adaptor shorting problem?

➤ **Faults Finding and Onboard Solution**

- No display problem solution
- Dead motherboard problem solution
- Automatic Restarting error repairing
- Hanging problem of laptop and desktop
- Charging & discharging faults of laptops
- Dim screen faults solution
- Automatic off problem & Blue screen

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- Date and time error
 - Heating faults of laptop and desktop
 - Fan not working faults of laptop and computer
 - Motherboard Shorting faults
 - Linkage problem & USB not working faults
 - Hard disk not working
 - Error from Webcam (camera)
 - Wi-Fi not working problem
 - Sound related faults solution
 - Network related problem
 - Laptop Touch pad not working
 - Keyboard not working faults of laptop and desktop
 - Bluetooth and card reader problem
 - White screen faults of laptops
 - Hinge repair of laptops
 - On/off switch related faults
 - BIOS password removing method

➤ Schematic Diagram Concept of Motherboard

- Desktop block Diagram of Motherboard
- Laptop block Diagram of motherboard
- Difference Between Laptop & Desktop Block Diagram
- How to download schematic from different website?
- How to read schematic?
- How to read board viewer software?

➤ Advance Level Repairing with Machine

- **BGA MACHINE:** How to work on BGA machine for Chip Re-balling (Graphic chip, PCH chip, North bridge chip, South bridge chip)
- **BIOS PROGRAMMER:** How to use BIOS programmer for reprogramming Laptop bios chip, Desktop bios chip, Lcd, Led TV Bios chips.
- **CRO/DSO MACHINE:** How to use CRO Machine for checking all signal on motherboard like reset signal, clock signal, bios signal and frequency?
- **DC MACHINE:** How to check various voltage from DC Power Supply machine?
- **DIAGNOSTIC CARD:** How to check motherboard problems using diagnostic card?
- **I/O PROGRAMMER:** How to Reprogram I/o chip with ENIT I/O PROGRAMMER
- **SMD TESTER:** How to check all electronics components with SMD TESTER
- **MICROSCOPRE:** How to track and repair motherboard using microscope
- **ENIT MO METER:** How can remove shorting with ENIT MO METER