

Laptoprefix Course	
Duration	3 Months (90 Days) 5 days week
Timing	10 am to 12pm (2 hours per day)
Fee	48000 Rs
Free Repair tools For Workshop Support	Disassembling Kit, Screwdriver kit , Iron + hotair 6 month online forum membership and all data files
Week 1	Introduction of laptop and repairing tools.
	Difference between card level and chip level.
	Laptop Card Level Hardware Tools (Screw Driver kit , Truser ,Opener Kit etc)
	Laptop Chip Level Hardware Tools (BGA Rework ,Hot Air ,Microscope etc)
	Laptop Repairing Tools (Digital Multimeter, RCL Meter, DSO etc)
	Introduction of Atom ,Volt ,current and Ampere. Introduction of Conductor , Semi-Conductor, Active and Passive Devices
Week 2	Resistor
	Types of Resister
	Resistor color code and marking
	Ohms Law and Functions
	Capacitor
	Types of Capacitor
	Checking With RCL Meter
	Functions
Inductor and Transformer	
Inductor and Its Marking	
Functions	
Transformer and working	
Step-up and Step-down Process	
Week 3	Diode
	P-type N-Type Material and Junction Barrier
	Rectification
	LEDs
	Transistor and FETs
	Intro and type of Transister
	NPN and PNP Transister
	FET and Its Types
	Jfet and Mosfet
ICs and Its Working	
ICs type and intro	
ICs Packing	
Buck Controler working with mosfet	
Schematics and oem symboles and signals	
Week 4	Vin and Battery Charging Section + Practical with DSO
	VIN B+ driving
	Acin Current sense and charging procedure
	Power good output
	3v 5V standby Section + LDO S5 section + Practical withDSO
	Vref and LDO genaration
S5 signal	
3valw 5valw and 15valw	
Week 5	EC Before power button + RTC Section + Practical with DSO
	PwrBTN,RsmRst,Bios Spi Interface
	RTCRST#,Intvren , 32.768 rtc
	LIDSW#, Ecrst discription
	After Power Button + S4 and S3 State part 1 + Practical with DSO
PWRBTNOUT#, DSWPWR for pumpup	
Enable S4 and S3 states	
Thermal Trip and Ram power section	
Week 6	After Power Button + S4 and S3 State part 2 + Practical with DSO
	Chipset power Supply 1.05vtt and ramvtt
	ME enable and power control 5v ,3.3v , 1.8v, 1.5v Run
	RUNPWROK and Vron
Clock section And GFx Section + Practical with DSO	
H_VTTPWRGD	

	GFX Enable UMA CK505 standards and functions
Week 7	Vcore Section CPU VRM ,Temrature and Fan sections+ Practical with DSO VccCore and VIDs indentification Thermal unit and fan control CPU_BCLK , CK_PWRGD HW_PWROK, PLTRST#, CPURST# Post Data Structure With Dso Analysis Ram address and data lines spd testing ras# and cas# DRAMRST# CKE AND CS#
Week 8	Graphics engine and driver section + Practical with DSO FDIINT# FDI INTERFACE LVDS DRIVER SECTION , BLON, LCDVDD DIS TO UMA Conversions CRT, HDMI,Audio, Lan ,Wifi, USB CRT SUPPLY and vga port hdmi,audio supply and Usb bitclock and enable wifi
Week 9	BGA Rework Station BGA Reballing Profile update in bga and opration mounting and unmountion Bios Editing and software introduction Bios Editing software Hp acer dell bios edit Spliting and merging of bios
Week 10	IO programming and Me-Region, TXE-Region edit SVOD,RT809 programmer intro Me-region Edit IO programming ene9012 and it85xx Password unlocking and DMI tools DMI Tool and Serial update in hp and lenovo Bios unlocking by Hash Codes IBM lenovo sony toshiba Security chip and unlocking
Week 11	3rd and 4th Gen Motherboards Power on Sequence of 3rd gen Power on Sequence of 4th gen TXE-Region for SoC editing Apple Schematics Board Views and Software ,DC one wire Circuit and G3Hot supply Tlink software intro etc BordView Analysis and Component Finding Short Checking Between component
Week 12	Apple Power on Sequence DC in To 3valw S3 To S0 Bootmodes Usb and Gfx Controller Apple Bios Editing and ME-Region Skills Bios edit and Me-Clear Password unlocking and serial updates
15 days Practical Live work Shop	