DKP MB SYLLABUS

SESSION	DESCRIPTION	CLASS
	WEEK -1	
1	**What is motherboard? And motherboard blockdiagram explain** a) DkpMotherboard Block Diagram -Explain b) What is difference between dual core board and core i5, i7 board? c) Motherboard chip level service tools list	Tips
2	**Basic electronics introduction** what is difference between electrical and electronics What is current and volt? What is difference between AC and DC? AC current/volt-DC current /volt Difference between normal electronics and SMT electronics What is multimeter? How use multimeter?	PRACTICAL
3	**RESISTOR** What is resistor and its working function? Types of resistor Resistor colour coding Difference between normal resistor and SMT resistor How find smd resistor value? And its checking method	
	CAPACITOR What is capacitor and its working function? Types of capacitor Difference between normal capacitor and SMT capacitor How find capacitor value? And its checking method	
	Student soldering practical-resistor and capacitor	
4	What is inductor and its working function? Types of inductor Inductor checking method What is transformer and its working function? Types of transformer	PRACTICAL

	transformer checking method	
5	**DIODE** What is diode and its working function? Types of diode Difference between normal diode and SMT diode diode checking method	PRACTICAL
6	**TRANSISTOR** What is transistor and its working function? Types of transistor-mosfet,Fet,PNP and NPN Difference between normal transistor and SMT transistor transistor checking method	PRACTICAL
7	**Students soldering practice** Mosfet and diode	
8	What is ic ? and its working function? Types of ic Various packages of ic Smd double side ic removing and fixing by using SMD REWORK STATION Smd four side ic removing and fixing by using SMD REWORK STATION	
	WEEK-2	
9	**VARIOUS SECTION OF MOTHERBOARD** **POWER SECTION** How motherboard power on? block diagram explain What is super io? How work smps power supply? And its checking method	PRACTICAL
10	**Student Practical**	
11	**Student Practical**	
12	**VOLTAGE REGULATOR SECTION** CPU Vcore [VRM] section VRM Circuit Fault Finding/Tracing and its Troubleshooting Tips	PRACTICAL
13	**Student Practical** VRM circuit fault finding practice	
14	**Student Practical** VRM circuit fault finding practice	
	WEEK-3	

15	**MEMORY VOLTAGE REGULATOR SECTION** Circuit Fault Finding/Tracing and its Troubleshooting Tips	PRACTICAL
16	**Student Practical**	
17	**CHIPSET VOLTAGE REGULATOR SECTION** Circuit Fault Finding/Tracing and its Troubleshooting Tips	PRACTICAL
18	**STUDENT PRACTICAL**	PRACTICAL
19	**Motherboard Debug card testing practical**	PRACTICAL
20	**motherboard voltage checking method for power fail motherboard [motherboard Dead]**	PRACTICAL
21	**No Display Problem-PRACTICAL** Power ON ok /power LED is Glow and CPU cooler FAN is Rotating continuously…………………but No Display Problem. How check Northbridge Video chipset voltage? ✓ How check south bridge chipset voltage? ✓ How check RAM voltage? ✓ Latest i5/i7 cpu motherboard complete voltage checking method	PRACTICAL
22	**Clock Frequency Checking-CRO Practical** **No Display Problem** ✓ What is clock and frequency? [HZ/KHZ/MHZ] ✓ How check system clock crystal frequency by **CRO** [14.3 MHz]? ✓ How check system clock generator clock output frequency?	PRACTICAL
	WEEK-4	
23	**BGA REWORK PRACTICAL** **No Display Problem** ✓ BGA CHIPSET Dry soldering method ✓ BGA chip replacement by using BGA Rework Machine ✓ BGA chip reballing method	PRACTICAL
24	**STUDENT PRACTICAL**	PRACTICAL
25	**BIOS FLASHING METHOD -Practical** ✓ What is BIOS? ✓ Why reprogram BIOS? [Password problem/Bios Rom checksum error message/system not booting problem/no display problem/post Error message problem and Etc...]	PRACTICAL

	✓ Bios chip pin outs and capacity identification ✓ Bios file backup method using Bios Programmer kit		
26	**Audio section problem -practical** ✓ No any sound signal [audio driver and sound setting is ok] ✓ Speaker /microphone and head phone are not working ✓ Head phone and mic are working but speaker no sound signal ✓ Speaker sound signal is very low ✓ Poor sound [distortion] signal for speaker **USB power circuit problem and its troubleshooting** ✓ How solve USB Port not working problem -practical ✓ Dkp MB online reference website [dkp board circuit/BGA chip/power ic/io ic /mosfet and etc] ✓ dkp motherboard parts and tools shop address list collection	PRACTICAL
27	**Students practical**	