

CHIP SYSTEMS: XEROX ,SMT ELECTRONICS -SYLLABUS

NO.OF.Days : 30 days		Course type: Tips & Prcl			
No.of. hours : 30 Days * 1.5 hrs a day=45 hrs.		Course Timing :			
S No	Day	Description	Dur-ation	T P	Class
1	Day-1	Automic Structure,AC,DC Examples of A.C,D.C,Voltage,Power Defircence between Ac & DC,Flow of Current,Conductor, Insulator,Semi Conductor,What is Electrical,Electronics, Type of Electronics,Voccum Tube Electronics,Normal Enlectronics, SMT Electronics,General Components,Multimeter Usages.	1.30 Hrs	T	SMT
2	Day2	Type of Capacitor,Active,passive Components,Colour Coding, Excercises, Series,parallel,Type of Resistors,Corbon Resistor, Metal oxide resistor,Metal film Resistor,Wire wound Resistor, SMT Resistor, Preset Resistor,Resistor Resting Method, Using Multimeter,SMT Resistor testing, soldering & Desoldering Normal Resistor,SMT Resistor.	1.30 Hrs	T	SMT
3	Day3	Practicals : 1.Soldering Practice 2.Resistor Soldering & Desoldering Practise 3.Multimeteter checking Method	1.30 Hrs	P	SMT
4	Day4	capacitor,Material in Capacitor,Electrolytic & Non electrolytic Capacitor,Relationship between Resistor,Cpacitor, Type of capacitor,Air Capacitor, paper capacitor, Mica Capacitor ceramic capacitor,Electrolytic capacitor,Variable capacitor,SMT Capacitor,Smart Tweezer. 1.Capacitor Checking Method-Normal 2.Capacitor Checking Method-SMT,Soldering & De soldering (Normal Capacitor),Soldering & De soldering(SMT Capacitor)	1.30 Hrs	T	SMT
5	Day5	Inductor,Type of Inductor-Air core Inductors,Ferrite Core Inductors,Pot Core Inductors,variable Inductors, SMT Inductors,Practical: 1.Inductor Checking Method-Normal,SMT Removing & Re fixing of Normal Inductors,SMT Inductors.	1.30 Hrs	T	SMT
6	Day-6	Practicals 1.capacitors Soldering,De soldering Method,Checking 2.Inductors Soldering & De soldering-checking	1.30 Hrs	P	SMT
7	Day7	Diode, Forward Bios,Reverse Bios,Types of Diode, P.N.Junction Diode or Power Diode,Zener Diode Photo diode or Signal Diode,Light Emitting Diode-L.E.D Gunn Diode,varactor Diode,SMT Diode SMT checking Methd,Normal Checking Methode Normal LED,SMT LED Checking Methode Soldering & Desoldring of Normal Diode,SMT Diode	1.30 Hrs	T	SMT
8	Day8	Transformer,Types of transformers -Step up Transformer, Step Down Transformer,Center tapped transformer Multi output Transformer,SMT Transformer Testing of Transformers, primary Section Test, Secondary test, Ground test, Primary to Secondary Test Open Transformer test, Removing & Refixing of Normal Transformers,SMT Transformers	1.30 Hrs	T	SMT

S No	Day	Description	Duration	TP	RESOURCE PERSON
9	Day9	Practicals 1.Diode Soldering,De soldering Method,Checking 2.Transformer Soldering & De soldering-checking	1.30 Hrs	P	SMT
10	Day10	Transistors, Types of transistors, BJT-PNP,NPN UJT Type:-FET,MOSFET,SMOS FET, SMT Mosfet, 1.Checking of Normal Transistor, SMT Transistor (PNP,NPN) 2.Removing & Re fixing of NORMAL Transistors type 3.Removing & Re fixing of SMT Transistors type	1.30 Hrs	T	SMT
11	Day11	What is I.C-Integrated CHIP, Birth of I.C, Inside of I.C parts of I.C, Types of I.C-Pin IC,ball I.C Single Side I.C (With Pin), Double Side (With Pin) Double side Square IC (with pin),Four side Square IC (with pin) Ball IC type : Four side square I.C-No Pin various models of Ball I.C-SIP,DIP,PGA,LGA, Fabrication Structure,IC Pin Details, Removing & Refixing of ball IC,PIN I.C	1.30 Hrs	T	SMT
12	Day12	Practicals 1.Transistor Soldering,De soldering Method,Checking 2.I.Cr Soldering & De soldering-checking	1.30 Hrs	P	SMT
13	Day13	1.What is Photo Copier (Xerox) 2.History of Photo copier 3.Most popular brands of copier Machines 4.Basic Concepts of Photo Copier 5.Commonly used tools for Servicing of photo copier 6.Vedio Classes of : 1.1.Basic concept,22.Constep Contn 3.Conductor,Insulator,Semi Conductor 4.Lightrays -Part1, 4.Lightrays -Part2 5.Corona Efforts-1, 5.Corona Efforts-2 Tools List Vedio, Charge Carotron- Corona Efforts-Practical	1.30	T	XEROX
14	Day14	1.Laser Printer, Scanner Concepts 2.Types of Copier Machines 3.Parts of the Copier Machines 4.Vedio Classes of History of Photo copier machine	1.30	T	XEROX
15	Day15	Copier machine Working concepts 7 Step Process 1.Charge 2.Expose 3.Develop 4.Transfer 5.transport 6.Fusing 7.Cleaning Vedio Classes Continuation of 7 step process. & Its working Principles 1.Charge ,2.Expose - vedios class	1.30	T	XEROX
16	Day16	Continuation of 7 step process & Its working Principles 3.Develop, 4.Transfer- vedios class	1.30	T	XEROX
17	Day17	Continuation of 7 step process & Its working Principles 5.Transport, 6.Fusing ,7.Cleaning -Vedio Classes	1.30	T	XEROX
18	Day18	1.Charging Section: Removing ,Re Fixing & Its Parts (Corona Wires ,Charging Rollers, End Blocks & Housings) Explanation in a Xerox machine	1.30	P	XEROX

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19	Day19	2.EXPOSURE Section: Removing ,Re Fixing & Its Parts (Mirrors, Exposes lamp, laser Unit,CCD (Lenz)- Explanation in a Xerox machine	1.30	P	XEROX
20	Day20	3. Developing Section: Removing, Re Fixing & Its Parts (Toner,Developer Module ,Magnetic or Mag Roller '& Drum Unit)Explanation in a Xerox machine	1.30 Hrs	T	XEROX
21	Day21	4. Transfer Section: Removing, Re Fixing & Its Parts (TD Assembly & Corona) Wires Explanation in a Xerox machine			
22	Day22	5.Transport Section: Removing,Re Fixing & Its Parts (Pickup Unit,Registration Unit, Feeder Unit) Explanation in a Xerox machine	1.30	P	XEROX
23	Day23	6.Fusing Section: Removing ,Re Fixing & Its Parts Heater lamp, Heat Roller, Pressure Roller & '-Delivery Section)Explanation in a Xerox machine	1.30 Hrs	P	XEROX
24	Day24	7.Cleaning Section: Removing,Re Fixing & Its Parts (Cleaning Blade, '-Waste Toner Box & Auger) Explanation in a Xerox machine	1.30	T	XEROX
25	Day25	Practical Video Classes of How to take a copy & Settings 1.How to Take a Copy in a Xerox machine 2.Photo Copier Settings.	1.30	P	XEROX
26	Day26	Practical Video Classes of MAINTANENCE TIPS 1.Cleaning the Dust in a Photocopier 2.Paper Tray Cleaning Method 3.Trasfer Roller Cleaning Method	1.30	P	XEROX
26	Day26	4.Error (Fault) Codes & Procedures.			
27	Day27	Practical Video Classes of TROUBLESHOOTINGS 1.Removal of paper jams at Feeding End. 2. Removal of paper jams at Fusing End. 3.Copy Quality Problems –Back grounded Copies 4.Copy Quality Problems – Lines on Copies (Straight Line)	1.30	P	XEROX
28	Day28	Practical Video Classes of TROUBLESHOOTINGS 5. Copy Quality Problems -Lines on Copies (Vertical) 6.Copy Quality Problems –Solid or Full Black Copies 7.Copy Quality Problems – Blank or White Copies 8. Copy Quality Problems – Fully Reduced or Enlarged Copies	1.30	P	XEROX

S No	Day	Description	Duration	T P	RESOURCE PERSON
29	Day29	Practical Video Classes of TROUBLESHOOTINGS <u>Removal of PCB's (PWBA)</u> 9. Removal of Interface Unit (Printer Board) 10. Removal of LVPS (Low Voltage power Supply) 11. Removal of Motherboard or Main PCB	1.30	P	XEROX
30	Day30	1. Copier paper Sizes 2. Most Popular Sizes 3. What is GSM, Application Examples What is AMC, Explanation What are the Type of AMC and Details Copier Abbreviations	1.30	P	XEROX

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