ADVANCED DIPLOMA IN COMPUTER HARDWARE AND NETWORK MANAGEMENT (ADCHNM)

curriculum

Ministry of Micro, Small and Medium Enterprises, New Delhi (MSME-Technology Centre)

COURSE/MODULE TEMPLATE

COURSE NAME: ADVANCED DIPLOMA IN COMPUTER HARDWARE & NETWORK MANAGEMENT.

COURSE CODE: MSME/ADCHNM/00

COURSE OUTCOMES: After completion of course Student should be able to:

- 1. Understand the work of SMPS and procedure to troubleshoot.
- 2. Understand the function of hardware peripherals of computer and procedure to troubleshoot the common issues.
- 3. Install various type of software and fault tolerant solutions.
- 4. Setup different network and share the resources.
- 5. Configure network and their various services by using of latest version of server.
- 6. Manage Linux OS and packages for server configuration.
- 7. Test the electronic components by using measuring devices and construct various circuits.
- 8. Understand the use of Microsoft Word, Excel and PowerPoint.
- 9. Work in a team, understand and practice soft skills, technical English to communicate with required clarity

THEORY HOURS: 255

PRACTICAL HOURS: 525 THEORY MARKS: 900

PRACTICAL MARKS: 900

Unit No.	Unit Name	Unit level outcomes	Contents (chapters/topics)	TH hours	Marks
UNIT-I	Power Supply	Understand the work of SMPS and procedure to troubleshoot.	 Types of power supply Block diagram of SMPS Input section of SMPS Switching Section of SMPS Output Section of SMPS Driver Section of SMPS Oscillator Section Of SMPS Standby Section of SMPS Fault-finding & Troubleshoot Voltage Testing 	27	100
UNIT-II	PC Architecture	Understand the function of hardware peripherals of computer and procedure to troubleshoot the common issue	1.Micro Processor 2.Mother Board 3.RAM 4.HDD 5.CDD 6.Key Board and Mouse 7.Monitor 8.Printer	54	100
UNIT-III	Software Installation, Up	Install various type of software and fault tolerance solution.	1. Partitioning & Formatting 2. OS Loading	12	100

	gradation &		3. Driver Loading		
	Maintenance		4. Application Software Loading		
	Network Essential,	Setup different network and	1. Transmission Media		
UNIT-IV	setup &	sharing the resources	2. IP Addressing	28	100
	management		3.Peer to Peer Networking		
		Configure network and their	1.Implement Client Server of		
	Network	2012 sonver	2012 Server OS		
	management &	2012 361 761	2.Create user in AD-DS and		
UNIT-V	server configuration		manage login Policies	36	100
			3.Configure DHCP Server		
			4.Configure N-Computing		
			lechnology		
		Manage Linux OS and	1. Concept of Linux file		
	LINUX management	configuration	2 Install Decksone and we		
	& network		2.Install Packages and up	26	100
UNIT-VI	configuration		gradation	30	100
			4. Traublashasting process of		
			4. Troubleshooting process of		
		Tast the electronic	1 Multimator & Tools		
		components by using	2 Posistor		
		measuring devices and	3 Canacitor		
	Basic Electronics	construct various circuits.	1 Inductor	24	100
UNIT-VII			5 Diode	24	100
			6 Transistor		
			7.10		
		Understand the use of	1.Word		
	Office Package	Microsoft Word, Excel and	2.Excel	15	100
		PowerPoint.	3.Power Point		100
		Work in a team,	1. Communicative English		
		understand and practice soft	2. Industrial Management		
UNIT-IX	Communication Skill	skills, technical English to	3. Project Work / In plant	15	100
		communicate with required	Training.		
		Clarity			

COURSE WISE DETAILS CONTENTS

Program Name : ADVANCED DIPLOMA IN COMPUTER HARDWARE & NETWORK MANAGEMENT.

ourse Title	: Power Supply
	: PC Architecture
	: Software Installation, Up gradation & Maintenance
	: Network Essential, setup & management
	: Network management & server configuration
	: LINUX management & network configuration
	: Basic Electronics
	: Office Package
	: Communication Skill
ourse Code	: MSME/ADCHNM/00

Rationale:

Hardware engineer would plan for pre requirements to setup the system unit to assemble the computer and laptop on standard basic and install, configure, manage and maintain an environment with client and server Operating Systems in the industry. Convergent problem and solutions to manage the services and troubleshooting. Repair and replace the peripheral equipment on standard basic of system. Plan and organize assigned work and resolve issues during execution of various software tools. Demonstrate possible solutions and agree tasks within the team of IT sector industry.

Network engineer would plan and construct data communication networks, such as local area network (LAN) and wide area network (WAN). Install, service and repair the computer data and communication systems used by companies and organizations. Installing and Configuring new software and hardware. Setting up user accounts, permissions and password to allow access to the network and to configuring on an existing network and newly setup network and also troubleshooting on network infrastructure.

Outcomes:

- Understand the work of SMPS and procedure to troubleshoot.
- Understand the function of hardware peripherals of computer and procedure to troubleshoot the common issues.
- Install various type of software and fault tolerant solutions.
- Setup different network and share the resources.
- Configure network and their various services by using of latest version of server.
- Manage Linux OS and packages for server configuration

Theory:

Topic and Contents Hours Marks			Topic and Contents	Hours	Marks
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Topic 1: Power Supply		27	100
MAJOR CHAPTERS			
1. Types of power supply	(10 Marks)		
2. Block diagram of SMPS	(10 Marks)		
3. Input section of SMPS	(10 Marks)		
4. Switching Section of SMPS	(10 Marks)		
5. Output Section of SMPS	(10 Marks)		
6. Driver Section of SMPS	(10 Marks)		
7. Oscillator Section Of SMPS	(10 Marks)		
8. Standby Section of SMPS	(10 Marks)		
9. Fault-finding & Troubleshooting	(10 Marks)		
10. Voltage Testing	(10 Marks)		
Contents:			
1.1 Types of power supply:	(10 Marks)		
 Introduction to power supply, 			
• Types of power supply ,			
• Use of power supply.			
1.2 Block diagram of SMPS:	(10 Marks)		
 Introduction to different section of SMPS, Eunction of different section of SMPS 			
 Function of unreferrit section of SMPS. Component used in different section of SMPS 			
 Component used in unrerent section of SMPS. 1.3 Input section of SMPS: 	(10 Marks)		
Introduction to Input section.	()		
Circuit Diagram of Input section			
Eunction of Input section			
Tracing of Input section			
 A Switching Section of SMPS 	(10 Marks)		
 Introduction to Switching Section 			
Gircuit Diagram of Switching Section			
Circuit Diagram of Switching Section.			
Function of Switching Section.			
Iracing of Switching Section.	(10 Marke)		
1.5 Output Section of SiviPS:	(10 Marks)		
Introduction to Output Section,			
Circuit Diagram of Output Section			
Function of Output Section.			
Tracing of Output Section.			
1.6 Driver Section of SMPS:	(10 Marks)		

•	Introduction to Driver Section		1	
	Circuit Diagram of Driver Section			
	Europian of Driver Section			
	Tracing of Driver Section			
_	1.7 Oscillator Section Of SMPS:	(10 Marks)		
	1.7 Oscillator Section Of Sivirs.			
•	Circuit Diagram of Oscillator Section,			
•	Circuit Diagram of Oscillator Section			
•	Function of Oscillator Section.			
•	Tracing of Oscillator Section.	(10 Max)		
~	1.8 Standby Section of SiviPS:	(10 Marks)		
•	Introduction to Standby Section,			
•	Circuit Diagram of Standby Section			
•	Function of Standby Section.			
•	Iracing of Standby Section.			
	1.9 Fault-finding & Troubleshooting	(10 Marks)		
•	lesting of different section.			
•	Detection of fault.			
•	I roubleshoot the fault.			
×	1.10 Voltage Testing:	(10 Marks)		
	Malles a least a trailer a least a second a second a second by			
• Topic	Voltage testing in the output connector of SMPS		E 4	100
• Topic	Voltage testing in the output connector of SMPS 2: PC Architecture		54	100
• Topic	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS		54	100
• Topic 3 MAJO 1.	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor	(10 Marks)	54	100
• Topic : MAJO 1. 2.	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board	(10 Marks) (20 Marks)	54	100
• Topic 3 MAJO 1. 2. 3.	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM	(10 Marks) (20 Marks) (10 Marks)	54	100
• Topic 3 MAJO 1. 2. 3. 4.	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM HDD	(10 Marks) (20 Marks) (10 Marks) (20 Marks)	54	100
• Topic 3 1. 2. 3. 4. 5.	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM HDD CDD	(10 Marks) (20 Marks) (10 Marks) (20 Marks) (10 Marks)	54	100
• Topic MAJO 1. 2. 3. 4. 5. 6.	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM HDD CDD Key Board and Mouse	(10 Marks) (20 Marks) (10 Marks) (20 Marks) (10 Marks) (10 Marks)	54	100
• Topic 7 MAJO 1. 2. 3. 4. 5. 6. 7.	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM HDD CDD Key Board and Mouse Monitor	(10 Marks) (20 Marks) (10 Marks) (20 Marks) (10 Marks) (10 Marks) (10 Marks)	54	100
• Topic MAJO 1. 2. 3. 4. 5. 6. 7. 8.	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM HDD CDD Key Board and Mouse Monitor Printer	(10 Marks) (20 Marks) (10 Marks) (20 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)	54	100
• Topic 3 MAJO 1. 2. 3. 4. 5. 6. 7. 8. Conter	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM HDD CDD Key Board and Mouse Monitor Printer hts:	(10 Marks) (20 Marks) (10 Marks) (20 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)	54	100
• Topic 3 MAJO 1. 2. 3. 4. 5. 6. 7. 8. Conte	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM HDD CDD Key Board and Mouse Monitor Printer hts: 2.1 Micro Processor:	(10 Marks) (20 Marks) (10 Marks) (20 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)	54	100
• Topic 3 MAJO 1. 2. 3. 4. 5. 6. 7. 8. Conter >	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM HDD CDD Key Board and Mouse Monitor Printer nts: 2.1 Micro Processor: Types of microprocessor and their technology.	(10 Marks) (20 Marks) (10 Marks) (20 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)	54	100
• Topic 3 MAJO 1. 2. 3. 4. 5. 6. 7. 8. Conter > •	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM HDD CDD Key Board and Mouse Monitor Printer nts: 2.1 Micro Processor: Types of microprocessor and their technology. 2.2 Mother Board:	(10 Marks) (20 Marks) (10 Marks) (20 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)	54	100
• Topic 3 MAJO 1. 2. 3. 4. 5. 6. 7. 8. Conter • • •	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM HDD CDD Key Board and Mouse Monitor Printer nts: 2.1 Micro Processor: Types of microprocessor and their technology. 2.2 Mother Board: Different types of motherboard	(10 Marks) (20 Marks) (10 Marks) (20 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)	54	100
• Topic 3 MAJO 1. 2. 3. 4. 5. 6. 7. 8. Conter > • • •	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM HDD CDD Key Board and Mouse Monitor Printer hts: 2.1 Micro Processor: Types of microprocessor and their technology. 2.2 Mother Board: Different types of motherboard Different types of add on cards.	(10 Marks) (20 Marks) (10 Marks) (20 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)	54	100
• Topic 3 MAJO 1. 2. 3. 4. 5. 6. 7. 8. Conte > • • • •	Voltage testing in the output connector of SMPS 2: PC Architecture R CHAPTERS Micro Processor Mother Board RAM HDD CDD Key Board and Mouse Monitor Printer nts: 2.1 Micro Processor: Types of microprocessor and their technology. 2.2 Mother Board: Different types of motherboard Different types of add on cards. Different types of port in motherboard	(10 Marks) (20 Marks) (10 Marks) (20 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)	54	100

\triangleright	2.3 RAM	(10 Marks)	l	
•	Types of memory of computer.			
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
\succ	2.4 HDD	(20 Marks)		
•	The type of HDD.			
•	Size of HDD			
•	The physical and logical technology used to in HDD.	read and write the data		
≻	2.5 CDD	(10 Marks)		
•	The type of CDD.			
•	The type of DVD			
•	The physical and logical technology used to in Optical Drive.	read and write the data		
\succ	2.6 Key Board and Mouse	(10 Marks)		
•	Types Key board			
•	Types Of Mouse			
•	Problem in Key board and mouse.			
\succ	2.7 Monitor	(10 Marks)		
•	Different types of Monitor.			
•	CRT			
•	LCD			
•	LED			
\triangleright	2.8 Printer	(10 Marks)		
•	Types of printer			
•	Printing technology of printer			
Topic 3	: Software Installation, Up gradation & Ma	aintenance.	12	100
MAJO	R CHAPTERS			
\succ	1. Partitioning & Formatting	(30 Marks)		
\succ	2. OS Loading	(30 Marks)		
~	3. Driver Loading	(20 Marks)		
	4. Application Software Loading	(20 Marks)		
Conter	its:			
\succ	3.1 Partitioning & Formatting	(30 Marks)		
•	Introduction to software and types.			
•	Partition concept of hard disk and their limi	tation.		
\triangleright	3.2 OS Loading	(30 Marks)		
•	Support and compatible with various opera	ting systems		
•	Standard basic installation.			

3.3 Driver Loading	(20 Marks)		
Support the hardware base application and	nd their uses.		
3.4 Application Software Loading	(20 Marks)		
Introduction to Application Software			
Installation process of Software.			
Topic 4: Network Essential, setup & manageme	ent.	28	100
MAJOR CHAPTERS			
1. Transmission Media	(30 Marks)		
2. IP Addressing	(30 Marks)		
3.Peer to Peer Networking)	(40 Marks)		
Contents:			
4.1 Transmission Media	(30 Marks)		
Introduction to Computer Network			
Network topology and transmission medi	a.		
4.2 IP Addressing	(30 Marks)		
Understand the OSI Model and functions	;		
 Protocol overview and Ranges of IP add 	ress		
4.3 Peer to Peer Networking)	(40 Marks)		
• Function of end user device (PC, MOBILE)			
Intermediate devices (REPEATER, HUB, S)	NITCH, ROUTER).		
• Introduction to Peer to Peer networking.			
Topic 5: Network management & server config	uration.	36	100
MAJOR CHAPTERS			
1.Implement Client Server of 2012 Serve	r OS (20 Marks)		
2.Create user in AD-DS and manage logi	n Policies (20 Marks)		
3.Configure DHCP Server	(30 Marks)		
4.Configure N-Computing Technology	(30 Marks)		
 Contents: 5.1 Implement Client Server of 2012 Server (OS (20 Marks)		
Concept of Client Server Architecture			
Workgroup and Domain Module			
 5.2 Create user in AD-DS and manage login 	Policies (20 Marks)		
Discuss Client Server security.	(,		
 Group Policy Management(GPM) 			
> 5.3 Configure DHCP Server	(30 Marks)		
Introduction various server configuration	and their services.		
DHCP Configuration.			
5.4 Configure N-Computing Technology	(30 Marks)		
Introduce wireless devices.			
Their implementation with zero configure	e process.		

MAIOR CHAPTERS 21. Concept of Linux file permission (25 Marks) > 2.Install Packages and up gradation (25 Marks) > 3.Configure various Linux server (25 Marks) > 4.Troubleshooting process of Linux (25 Marks) Contents: (25 Marks) > 6.1 Concept of Linux file permission (25 Marks) Introduce Linux Operating System and installation Overview about Linux OSS and Linux file systems > 6.2 Install Packages and up gradation (25 Marks) Concept of Linux file permission (25 Marks) 0 Verview about Linux Server (25 Marks) Configure Packages and up gradation (25 Marks) 6.3 Configure various Linux server (25 Marks) Configure PTP and SAMBA server. (26 Marks) Change boot process of Linux (25 Marks) Change boot process of Linux OS. (25 Marks) Change password of root in rescue mode. Install and upgrade packages as per service of server. Topic 7: Basic Electronics. 24 100 MAIOR CHAPTERS 15 Marks) 2.Resistor 1.Multimeter & Tools (15 Marks) 2.Baction S.Diode (15 Marks) 5.Diode	MAJOR CHAPTERS 21.nstall Packages and up gradation (25 Marks) > 21.nstall Packages and up gradation (25 Marks) > 3.Configure various Linux server (25 Marks) > 4.Troubleshooting process of Linux (25 Marks) > 6.1 Concept of Linux file permission (25 Marks) > 6.1 Concept of Linux file permission (25 Marks) > 6.1 Concept of Linux file permission (25 Marks) > 6.2 Install Packages and up gradation (25 Marks) Concept of Linux file permission (25 Marks) Configure Various Linux server (25 Marks) Configure PTP and SAMBA server. (25 Marks) > 6.4 Troubleshooting process of Linux (25 Marks) Configure PTP and SAMBA server. (25 Marks) > 6.4 Troubleshooting process of Linux OS. (25 Marks) • Change bassword of root in rescue mode. Install and upgrade packages as per service of server. Topic 7: Basic Electronics. 24 100 MAOR CHAPTERS 15 Marks) 2.Resistor > 1.Multimeter & Tools (15 Marks) 2.Resistor > 3.Capacitor (15 Marks) 5.Diode > 5.Diode (15 Marks) 7.1C	Topic 6: LINUX management & network config	uration.	36	100
 i. Concept of Linux file permission (25 Marks) 2.Install Packages and up gradation (25 Marks) 3.Configure various Linux server (25 Marks) 4.Troubleshooting process of Linux (25 Marks) 6.1 Concept of Linux file permission (25 Marks) i.Introduce Linux Operating System and installation Overview about Linux SS and Linux file systems 6.2 Install Packages and up gradation (25 Marks) Configure Various Linux server (25 Marks) Concept of Linux file permission Install Packages and up gradation 6.3 Configure various Linux server (25 Marks) Configure DNS and DHCP server. Configure Papache web server. Configure Apache web server. Configure FTP and SAMBA server. 6.4 Troubleshooting process of Linux OS. Change boot process of Linux OS. Change password of root in rescue mode. Install and upgrade packages as per service of server. Topic 7: Basic Electronics. 24 100 MAIOR CHAPTERS 1.Multimeter & Tools (15 Marks) 3.Capacitor (15 Marks) 5.Diode (15 Marks) 5.Diode (15 Marks) 5.Diode (15 Marks) 7.1.Multi meter & Tools (15 Marks) 6.Transistor (15 Marks) 7.1.Multi meter & Tools (15 Marks) 7.1.Multi meter & Tools (15 Marks) 6.Transistor (15 Marks) 7.1.Multi meter & Tools (15 Marks) 6.Transistor (15 Marks) 7.1.Multi meter & Tools (15 Marks) 6.Transistor (15 Marks) 7.1.Multi meter & Tools (15 Marks) 6.Transistor (15 Marks) 7.1.Multi meter & Tools (15 Marks) 1.Identification of Different terminal Testing procedure of V, I, R. Identification of tools and its function.<!--</td--><td> Concept of Linux file permission (25 Marks) 2.Install Packages and up gradation (25 Marks) 3.Configure various Linux server (25 Marks) 4.Troubleshooting process of Linux (25 Marks) 6.1 Concept of Linux file permission (25 Marks) 6.1 Concept of Linux file permission (25 Marks) Introduce Linux Operating System and installation Overview about Linux OSS and Linux file systems 6.2 Install Packages and up gradation (25 Marks) Concept of Linux file permission Install Packages and up gradation 6.3 Configure various Linux server (25 Marks) Configure DNS and DHCP server. Configure FIP and SAMBA server. 6.4 Troubleshooting process of Linux (25 Marks) Change boot process of Linux OS. Change boot process of Linux OS. Change password of root in rescue mode. Install and upgrade packages as per service of server. Topic 7: Basic Electronics. 24 100 MAIOR CHAPTERS A.Inductor A.Inductor Marks) S.Diode G.Transistor J.S Marks) A.Inductor Topic 7: Basic Flectronics Contents: Y.I. Multi meter & Tools (15 Marks) S.Diode Tomarks) J.T.C (10 Marks) Contents: Y.I. Multi meter & Tools (15 Marks) J. Multi meter & Tools (15 Marks) Identification of Different terminal Testing procedure of V, I, R. Identification of Resistor. Calculation of value of Resistor. Calculation of Resistor. Calculation of Resistor. Calculation of Resistor. Calculation of Resistor. </td><td>MAIOR CHAPTERS</td><td></td><td></td><td></td>	 Concept of Linux file permission (25 Marks) 2.Install Packages and up gradation (25 Marks) 3.Configure various Linux server (25 Marks) 4.Troubleshooting process of Linux (25 Marks) 6.1 Concept of Linux file permission (25 Marks) 6.1 Concept of Linux file permission (25 Marks) Introduce Linux Operating System and installation Overview about Linux OSS and Linux file systems 6.2 Install Packages and up gradation (25 Marks) Concept of Linux file permission Install Packages and up gradation 6.3 Configure various Linux server (25 Marks) Configure DNS and DHCP server. Configure FIP and SAMBA server. 6.4 Troubleshooting process of Linux (25 Marks) Change boot process of Linux OS. Change boot process of Linux OS. Change password of root in rescue mode. Install and upgrade packages as per service of server. Topic 7: Basic Electronics. 24 100 MAIOR CHAPTERS A.Inductor A.Inductor Marks) S.Diode G.Transistor J.S Marks) A.Inductor Topic 7: Basic Flectronics Contents: Y.I. Multi meter & Tools (15 Marks) S.Diode Tomarks) J.T.C (10 Marks) Contents: Y.I. Multi meter & Tools (15 Marks) J. Multi meter & Tools (15 Marks) Identification of Different terminal Testing procedure of V, I, R. Identification of Resistor. Calculation of value of Resistor. Calculation of Resistor. Calculation of Resistor. Calculation of Resistor. Calculation of Resistor. 	MAIOR CHAPTERS			
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Calculation of value of Resistor.	Connection of Resistor	Calculation of value of Resistor.			
Connection of Posictor		 Connection of Desistor 			

	Testing of Resistor.			
\succ	7.3 Capacitor	(15 Marks)		
•	Identification of Capacitor.	, , ,		
•	Calculation of value of Capacitor.			
•	Connection of Capacitor.			
•	Testing of Capacitor.			
\succ	7.4 Inductor	(15 Marks)		
•	Testing of inductor.			
•	Function of Inductor.			
\succ	7.5 Diode	(15 Marks)		
•	Characteristic of diode			
•	Connection of Diode.			
•	Testing of Diode			
•	Use of Diode.			
\succ	7.6 Transistor	(15 Marks)		
•	Identification of transistor			
•	Testing of Transistor.			
•	Function of Transistor			
\succ	7.7 IC	(10 Marks)		
•	Types of IC.			
•	Working of IC			
				100
Торіс	8: Office Package.		15	100
Topic	8: Office Package. 8.1.Word	(40 Marks)	15	100
Topic	8: Office Package. 8.1.Word 2.Excel	(40 Marks) (30 Marks)	15	100
Topic	8: Office Package. 8.1.Word 2.Excel 3.Power Point	(40 Marks) (30 Marks) (30 Marks)	15	100
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Topic 9: Communication Skill.	15	100
MAJOR CHAPTERS:		
 I. Introduction to Basics of communication (25 Marks) 		
 2. English Language Lab (25 Marks) 		
 3. Personality Development (25 Marks) 		
4.1 Group Discussion (25 Marks)		
Contents:		
 9.1 Introduction to Basics of communication (25 Marks) 		
Forms types purpose theory examples from day to day life		
 Introduction to soft skills 		
 Introduction to ponverbal communication – body language 		
 9 2 English Language Lab (25 Marks) 		
The Sounds of English – Vowels & Consonant		
Word Accent – Accent Tone Pitch		
Voice Modulation		
 9 3 Personality Development (25 Marks) 		
 Elocution debates extempore Newspaper reading 		
 Dositive gestures, bandsbakes, eve contact, smiles, styles of 		
walking hand movements		
Activities on Listening Skill		
Role Plays and Situation Handling		
• Role Flays and Situation Handling (25 Marks)		
 9.4 Group Discussion (25 Marks) (25 Marks) 		
 One- to-one interaction & group exercises. Bola plays, situation bandling tashniguas for above skills 		
• Role plays, situation nanuling techniques for above skills.	255	
Total	255	800

Intellectual Skills:

- 1. Prepare list for assemble the computer.
- 2. Prepare list for setup LAN.
- 3. Design peer to peer networking.
- 4. Design Client server networking.
- 5. Select suitable software and drivers.

Motor Skills:

- 1. Repair the computer peripherals.
- 2. Repair the computer and make it functional.
- 3. Setup LAN.

List of Practical:

- 1. Power supply Repairing.
- 2. Assembling of PC.
- 3. Partitioning and formatting of HDD.
- 4. Perating system setup.
- 5. Driver and application software loading.
- 6. Peer to Peer networking.
- 7. Client Server Networking
- 8. Server Management.

9. Learning Resources:

Books:

Sr. No.	Author	Title	Publisher
1	Scott Mueller	1.Upgrading and Repairing PCs	Tom's Hardware
2	Vikas Gupta	Comdex Hardware and Networking Course Kit	Dreamtech
3	Stephen Bigelow	Troubleshooting, Maintaining and Repairing PCs (Hardware)	Bigelow's
4	Behrouz A Forouzan	Data Communications and Networking	The McGraw-Hill