

Mangalmay Institute of Management Technology Greater Noida (U.P.)





CERTIFICATION PROGRAMME

On

Hardware, Assembly and Networking

From

6th October – 9th December, 2022

Convener: Mr. Abhay N Tripathi, Associate Professor, MIMT

For BCA 1st Semester

Resource Person

Ms. Monika Pathak Assistant Professor, MIMT

www.mangalmay.net.in | Plot No. 8 & 9, Knowledge Park-II, Greater Noida, Delhi-NCR, India



Mangalmay Institute of Management Technology

Greater Noida (U.P.)



SYLLABUS

HardwareAssemblyandNetworking

Duration: 30 Hours

Module 1:

Computer Basics–Introduction and History,Introduction & Definition of Computer,Block Diagram of computer, Classification of computer,Characteristics of Computers, WhatisLanguage?,

TypesofLanguagesandlanguagetranslators.

,HistoryandGenerationofcomputers,Memory-

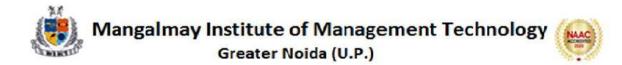
Bits,Bytes,KB,MB,GB,TB,PB,EB,ZB,YBetc,ComputerSoftware,TypesofSoftwarewithEx.(System/Application/UtilityS/W,ComputerHardware,Intro.toHardwarecomponentsofcomputer

Module 2:

Assembling and Dissembling PCs - Assembling and Disassembling a PC, Precautionsto be taken while assembling the PC Introduction to BIOS / CMOS Setup, POST(Power On Self Test), Introduction to BIOS/CMOS Setup, POST (Power On Self-Test,Demonstration of BIOS/CMOSConfiguration (Date,Time,Enable/DisableDevices).,DualBIOSFeature,BIOS/CMOSSetup,BootingSequence/BootOrder

Module3:

Introduction to Operating System , Definition and types of Operating Systems – MSDos, Windows 9x/XP/Vista/7/8, Linux, MAC OS, Android etc. , Process of BootingtheOperatingSystem.,WinXP/Win7.ActivationandAutomaticUpdatingprocedures.



Schedule HardwareAssemblyandNetworking

	Duration: 30hours								
Session	Content	Time	Date						
1.	ComputerBasics–IntroductionandHistory,blockdiagramofcomputer.	3:00 -04:30	06/10/2022						
2.	Classificationofcomputer CharacteristicsofComputers	3:00 -04:30	07/10/2022						
3.	WhatisLanguage?•TypesofLanguagesandlanguagetranslators	3:00 -04:30	13/10/2022						
4.	HistoryandGenerationofcomputers	3:00 -04:30	14/10/2022						
5.	Memory- Bits, Bytes, KB,MB, GB,TB,PB,EB,ZB,YBetc	3:00 -04:30	20/10/2022						
6.	Computer Software, Types of Software &Computer Hardware, Intro. to Hardware componentsofcomputer	3:00 -04:30	21/10/2022						
7.	AssemblingandDissemblingPCs&Precautionstobetakenwhile assemblingthePC	3:00 -04:30	27/10/2022						
8.	IntroductiontoBIOS/CMOSSetup,POST(PowerOnSelfTest)	3:00 -04:30	28/11/2022						
9.	DemonstrationofBIOS/CMOSConfiguration(Date,Time,Enable/Disa ble Devices).	3:00 -04:30	03/11/2022						
10.	DualBIOSFeature•BIOS/CMOSSetup, BootingSequence/BootOrder	3:00 -04:30	04/11/2022						
11.	IntroductiontoOperatingSystem&DefinitionandtypesofOperatingSyst ems	3:00 -04:30	10/11/2022						
12.	MS Dos&Windows9x&Android	3:00 -04:30	11/11/2022						
13.	XP/Vista,Linux,MACOS	3:00 -04:30	17/11/2022						
14.	ProcessofBootingtheOperating System	3:00 -04:30	18/11/2022						
15.	WinXP/Win7	3:00 -04:30	24/11/2022						
16.	ActivationandAutomaticUpdatingprocedures	3:00 -04:30	25/11/2022						
17.	Linux	3:00 -04:30	01/12/2022						
18.	PracticalDemonstrationofComputer Assembling	3:00 -04:30	02/12/2022						
19.	PracticalDemonstrationofComputer Assembling	3:00 -04:30	08/12/2022						
20.	Revision	12:00 -01:30	09/12/2022						



Mangalmay Institute of Management Technology Greater Noida (U.P.)



	Report
NameofActivity	Hardware, Assembly and Networking
Date	6^{th} October , 2022 – 9^{th} December , 2022
Venue	BCAClassroom
Organizedby	BCADepartment
Resourceperson	Ms.Monika Pathak, AssistantProfessor,MIMT
Participated by	BCAIyearstudents(90 students)
Convener	Mr. Abhay N Tripathi, AssociateProfessor,MIMT
Objective	 Theobjectiveisto: To obtain a responsible challenging and rewarding position in the field of Desktop Support and network maintenance in an organization. This subject is help to identify problems associated with connectivity hardware.
Content	 With the initiative of IQAC, Mangalmay Institute of Management and Technology organized add on certification course on "hardware and internalize their basic computer components. Day1: The description of the computer's fundamental components, its history, and its block diagram learn into that session. Day2: Students learned about computer classification and characteristics during this interactive workshop. Day3:The session was introduced by the resource person by talking about the various translators and computer languages that they used. Day3:The session was onputer languages that they used. Day4:Studentslearntaboutvariousgenerationsofcomputer. Day5:Thesessionwas focus onmemory. Day6: Computer software and the many types of software and hardware were the main topics of this session. Day 7: The resource people talked about how to assemble and disassemble the PCs as well as safety measures to be implemented. Day9:The session begins with a BIOS and CMOS configuration were covered. POST stands for power on self test. Day9:The session begins with a BIOS and CMOS demonstration. Day 11: In this session, the resource person now discusses operating systems and their different varieties. Operating is important. Day12:The command operating systems, MS-DOS and Windows OS, were discussed by the resource person. Day15: WinXP and Win7 were taught to the students. Day16:The process for activation and automatic updating was covered in this session. Day12:The command operating systems. Day14:Students learned how to boot the operating system during this lesson. Day15: WinXP and Win7 were taught to the students. Day16:The process for activation and automatic updating was covered in this session. Day19:A demonstration of how to assemble a computer was done practically in this session. Day19:A demonstration of how to assemble a computer w



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Outcome	ThroughHardwareandNetworkingCoursestudentsarecapableof:
ofActivity	• Identify the hardware components of a computer.
-	• Identify the peripheral devices outside computer.
	• Identify the software running on a computer.



Mangalmay Institute of Management Technology

Greater Noida (U.P.)



RESOURCEPERSONPROFILE

Name: Ms. Monika Pathak, Assistant Professor

Org:MIMT,GreaterNoida

Qualification: BCA, MCA

AreaofExpertise: Networking

Certificate Template:



2022

PRINCIPAL Mangalmay Institute of Management & Technology

CONVENER Mangalmay Institute of Management Technology

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	ł	ě,	Mangalmay Institute of M Greater Noida		emen <mark>t T</mark> e	chnology	
C	Course	: BCA	ADD-ON COURS Course Name: Hardware, Assembl			Time: 30 Min Date: 26)12)20	22
F	toll No	:	Name: Deepak kuma	n		Year/Sem: I/I	Inc
	Note	: All que	estions are compulsory. Each question wil	carry '1	' mark and ther	e is no 'Negative Ma	rking'
1)		When	n the computers shut down, the	cor	ntents are lost.		
		a.)	Input	b.)	Output		
		c.)	Memory	d.)	Storage		
	2)	A ha	rd disk is divided into tracks which are	further	subdivided int	0	<i>.</i>
		a.)	Vectors	b.)	Clusters		
		c.)	Sectors V	d.)	None of the	above	
	3)	The I	Expansion cards are inserted into	in	a computer		
		a.)	Slots of CPU	b.)	Hard Disk o	f CPU	
		c.)	Peripheral Devices 🗸 🔨	d.)	None of the	above	
	4)	Whic	h memory is known as Volatile Memo	ry			
		a.)	RAM	b.)	Rom		
	5)	Whic	h of the following is a device that is us	ed to co	nnect a numbe	er of LANs?	
		a.)	Bridge	b.)	Switch V		-
		c.)	Router	d.)	Repeater		
	6)	Whic	h of the following has the highest stora	ige			
		a.)	Megabyte 🗸 🖌	b.)	Gigabyte		
	la de la de Alexandre Alexandre de	c.)	Terabyte	d.)	Kilobyte		
	7)	Whic	h of the following has the fastest speed	in the c	omputer mem	ory hierarchy?	
		a.)	Cache V	b.)	Registers in	CPU	
		c.)	Main memory	d.)	Disk Cache		
		14 F Section					

 a.) 1024 Megabytes b.) 1024 Petabytes c.) 1024 bytes d.) 1024 bits 100 A source program is the program written in language. a.) English c.) High level d.) Machine 11) The box that contains the central electronic components of the computer is the a.) Input device b.) Peripheral c.) System unit d.) Motherboard d.) Motherboard 12)is used as a high speed network backbone media a.) Fiber Optic Cable c.) Twisted pair Cable d.) Local Area Network d.) Local Area Network d.) None of these 14) A microprocessor used in a.) Personal computer d.) Mainframe Computer 		a.) Protocol speed	b.) Megabits per second
 a) 1024 Megabytes b) 1024 Petabytes c) 1024 bytes d) 1024 bits 100 A source program is the program written in language. a) English c) High level d) Machine 11) The box that contains the central electronic components of the computer is the a.) Input device b) Peripheral c) System unit d.) Motherboard 12)is used as a high speed network backbone fieldia a.) Fiber Optic Cable b.) Coaxial cable c.) Twisted pair Cable d.) None of the above 13) LAN stands for a.) Local Area Network d.) None of these 14) A microprocessor used in a.) Personal computer d.) Mainframe Computer 15) Which of the following is not an example of hardware? a.) Excel b.) Monitor c.) Printer For Departmental use only		c.) A fiber speed	d.) None of these
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c.) Printer d.) Mouse	15) ·	Which of the following is not an example.	maple of hardware?
For Departmental use only		a.) Excel	b.) Monitor
		c.) Printer	d.) Mouse
			2019년 1월 1997년 1월 2월 2019년 1월 2019년 2월 19일 - 1일
			한 것이 지않는 것이 같이 많을 것이다.
Max. Marks: 15 Marks Obtained: 11		For De	partmental use only
2월 1996년 1977년 1978년 1978년 1979년 1979년 197		Max. Marks: 15	Marks Obtained: 1
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	BCA	Course Name:	ADD-ON COUR Hardware, Assem			Time: 30 Min Date: 26/12/20	23
oll No		Name: A	vantika			Year/Sem: I/I	9
Note:	All que	estions are compulsory	y. Each question w	vill carry '1	' mark and th	ere is no 'Negative M	arking'
	When	n the computers shu	t down, the	coi	itents are los	t.	
	a.)	Input	\sim	b.)	Output		
	c.)	Memory	(\mathbf{k})	d.)	Storage		
2)	A ha	rd disk is divided int	to tracks which a	re further	subdivided i	nto	
	a.)	Vectors	()	b.)	Clusters		
	c.)	Sectors		d.)	None of th	e above	
3)	The l	Expansion cards are	inserted into	iı	n a computer		
	a.)	Slots of CPU		b.)	/Hard Disk	of CPU	
	c.)	Peripheral Devices	S	d.)	None of th	e above	
4)	Whie	ch memory is known	n as Volatile Mer	nory			
			$\left(\right)$		0		
	a.)	RAM		b.)	ROM		
5)	Whie	ch of the following i	s a device that is	used to co	onnect a num	ber of LANs?	
	a.)	Bridge	\square	b.)	Switch		
	c.)	Router	X	d.)	Repeater		
6)	Whi	ch of the following l	has the highest st	orage			
	a.)	Megabyte	R	b.)	Gigabyte		
	c.)	Terabyte 🗸	A	d.)	Kilobyte		
7)	Whi	ch of the following l	has the fastest spe	eed in the	computer m	emory hierarchy?	
	a.)	Cache	1	b.)	Registers	in CPU	
	c.)	Main memory	X	d.)	Disk Cach	ne	

8)	With respect to a network into		$(\setminus \mu$
	a.) Protocol speed	b.)	Megabits per second
	c.) A fiber speed	d.)	None of these
9)	The value of Gigabyte is	\sim	
	.a.) 1024 Megabytes 🗸	() b.)	1024 Petabytes
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11)	The box that contains the	central electronic c	omponents of the computer is the
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	c.) System unit	d.)	Motherboard
12)	is used as a high sp	peed network back	pone media
	a.) Fiber Optic Cablec.) Twisted pair Cable	b.) d.)	Coaxial cable None of the above
S.	13) LAN stands for	(D)	
	a.) Local Area Network	(Ub.)	Limited Area Network
	c.) Local Area Next	d.)	None of these
4)	A microprocessor used in		\wedge
	a.) Personal computer	b.)	EMAC
	c.) Mini computer	d.)	Mainframe Computer
5)	Which of the following is not	an example of hard	lware?
1	a.) Excel	() b.)	Monitor
	c.) Printer	d.)	Mouse
		for Departmental	use only
	Max. Marks: 15	Marks Ot	otained: 12
0.414 1.417	Name of Evaluator: Monit	Du Sim	A culla

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cours	e: BCA	ADD-ON COUR Course Name: Hardware, Assem		
oll N	0:	Name: Saista		Year/Sem: I/I
Not	e: All qu	uestions are compulsory. Each question w	vill carry '	1' mark and there is no 'Negative Mar
		en the computers shut down, the		
	a.)	Input	b.)	Output
	c.)	Memory	d.)	Storage
2)	Ah	ard disk is divided into tracks which a	re furthei	subdivided into
	a.)	Vectors	b.)	Clusters
	c.)	Sectors	d.)	None of the above
3)	The	Expansion cards are inserted into	i	n a computer
	a.)	Slots of CPU ·	b.)	Hard Disk of CPU
	c.)	Peripheral Devices	d.)	None of the above
4)	Wh	ich memory is known as Volatile Mer	nory	
	a.)	RAM	b.)	ROM
5)	Wh	ich of the following is a device that is	used to c	connect a number of LANs?
	a.)	Bridge	b.)	Switch
	c.)	Router	d.)	Repeater
6)	Wh	ich of the following has the highest st	orage	
	a.)	Megabyte) .b.)	Gigabyte
	c.)	Terabyte	d.)	Kilobyte
7)	Wh	ich of the following has the fastest spe	ed in the	computer memory hierarchy?
	a.)	Cache	b.)	Registers in CPU
	c.)	Main memory	d.)	Disk Cache

РТО

8)	With respect to a network interface card, t	he terr	n 10/100 refers to
	a.) Protocol speed	b.)	Megabits per second
	c.) A fiber speed	d.)	None of these
9)	The value of Gigabyte is		
	a.) 1024 Megabytes	b.)	1024 Petabytes
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12)	is used as a high speed network	k backl	bone media
	a.) Fiber Optic Cable	b.)	Coaxial cable
	c.) Twisted pair Cable	d.)	None of the above
	13) LAN stands for		
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14)	A microprocessor used in		
	a.) Personal computer	b.)	ENIAC
	c.) Mini computer	d.)	Mainframe Computer
15)	Which of the following is not an example	ofhar	dware?
	a.) Excel	b.)	Monitor
	c.) Printer	d.)	Mouse
			•
	For Departn	iental	use only
	Max. Marks: 15 Ma	rks Ol	btained: 11

Name of Evaluator: Morika Pathal Sign.

Monikg

(8),	Mangalmay Insti Gre	itute of Manag ater Nolda (U.P.		chnology
Course:	BCA		D-ON COURSE QUI ware, Assembly & No		Time: 30 Min Date: 2 611212.02 2
Roll No		Name: Yask	Agerawal		Year/Sem: I/I
Note:	All qu	estions are compulsory. Ea	ch question will carry	'I' mark and the	re is no 'Negative Marking'
1)	Whe	n the computers shut dov	vn, thec	ontents are lost	
	a.)	Input	() b.)	Output	
	c.)	Memory	(d.)	Storage	
2)	A ha	rd disk is divided into tra	cks which are furthe	er subdivided in	ito
	a.)	Vectors	b.)	Clusters	
	c.)	Sectors	$\left(\begin{array}{c} \\ \end{array} \right) d. \right)$	None of the	above
3)	The	Expansion cards are inser	rted into	in a computer	
	a.)	Slots of CPU	b.)	Hard Disk o	of CPU
	c.)	Peripheral Devices ✓	L d.)	None of the	above
4)	Whie	ch memory is known as V	Volatile Memory		
	a.)	RAM	b.)	ROM	
5)	Whie	ch of the following is a d	evice that is used to	connect a numb	per of LANs?
	a.)	Bridge	b.)	/ Switch V	
	c.)	Router	d.) ^C	Repeater	
6)	Whie	ch of the following has th	e highest storage		
	a.)	Megabyte	() b.)	Gigabyte	
	c.)	Terabyte	d.),	Kilobyte	
7)	Whie	ch of the following has th	e fastest speed in the	e computer mei	nory hierarchy?
	a.)	Cache 🗸 📈	b.)	Registers in	I CPU
	c.)	Main memory	d.)	Disk Cache	

Mar. A.L.

8)-	With respect to a network interface card, the term 10/100 refers to
	a.) Protocol speed (b.) Megabits per second
	c.) A fiber speed d.) None of these
9)	The value of Gigabyte is
	a.) 1024 Megabytes
	c.) 1024 bytes d.) 1024 bits
10)	
	a.) English (1) Symbolic
	c.) High level
11)	The box that contains the central electronic components of the computer is the
	a.) Input device b.) Peripheral
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12)	is used as a high speed network backbone media
	a.) Fiber Optic Cable c.) Twisted pair Cable d.) None of the above
	13) LAN stands for
	a.) Local Area Network
	c.) Local Area Next d.) None of these
14)	A microprocessor used in
	a.) Personal computer, (0.) ENIAC
	c.) Mini computer ⁻ d.) Mainframe Computer
15)	Which of the following is not an example of hardware?
	a.) Excel (b.) Monitor
	c.) Printer d.) Mouse
	For Departmental use only
	Max. Marks: 15 Marks Obtained: 4 3
	Max. Marks: 15 Marks Obtained: 12

ours	e: BCA		ame: Hardy	-ON COURSI ware, Assembly	& Netw	vorking	Time: 30 Min Date: 2.6/12/202	1
oll N	0:	Name:	Yasen	Dhanico	al		Year/Sem: 1/1	9
Not	e: All qu	estions are comp	ulsory. Eac	h question will	carry '1	' mark and the	ere is no 'Negative Marki	ngʻ
	Whe	en the computer	s shut dow	m, the	, coi	itents are los	t.	
	a.)	Input		R	b.)	Output		
	c.)	Memory	1		d.)	Storage		
2)	A ha	rd disk is divid	ed into tra	cks which are	further	subdivided in	nto	
	a.)	Vectors			b .)/	Clusters		
	c.)	Sectors V	/		d.)	None of the	e above	
3)	The	Expansion card	s are inser	ted into	ir	a computer		
	a.)	Slots of CPU		,	b.)	Hard Disk	of CPU	
	c.)	Peripheral De	evices	X	d.)	None of the	e above	
4)	Whi	ch memory is k	nown as V	olatile Memor	ry	. 1 .		
	a.)	RAM			b.)	ROM		
5)	Whi	ch of the follow	ving is a de	evice that is us	ed to co	onnect a num	ber of LANs?	
	a.)	Bridge			b.)	Switch		
	c.)	Router	\checkmark		d.)	Repeater		
6)	Whi	ch of the follow	ing has th	e highest stora	ıge			
	a.)	Megabyte		$\widehat{()}$	b.)	Gigabyte		-
	c.)	Terabyte		N	d.)	Kilobyte		
7)	Whi	ch of the follow	ring has the	e fastest speed	l in the o	computer me	mory hierarchy?	
	a.)	Cache	N	(b.)	Registers in	n CPU	
	c.)	Main memory	y V		d.)	Disk Cache		

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11

8)	With respect to a network interface card, the term 10/100 refers to					
	a.) Protocol speed () b.) Megabits per second					
	c.) A fiber speed d.) None of these					
9)	The value of Gigabyte is					
	a.) 1024 Megabytes					
	c.) 1024 bytes d.) 1024 bits					
10)	A source program is the program written inlanguage.					
	a.) English b.) Symbolic					
	c.) High level d.) Machine					
11)	The box that contains the central electronic components of the computer is the					
	a.) Input device b.) Peripheral					
	c.) System unit d.) Motherboard					
12)	is used as a high speed network backbone media					
	a.) Fiber Optic Cable					
	c.) Twisted pair Cable (d.) None of the above					
	13) LAN stands for					
	a.) Local Area Network					
	c.) Local Area Next d.) None of these					
14)	A microprocessor used in					
	a.) Personal computer					
	c.) Mini computer d.) Mainframe Computer					
15)	Which of the following is not an example of hardware?					
	a.) Excel () b.) Monitor					
	c.) Printer d.) Mouse					
	For Departmental use only					
	Max. Marks: 15 Marks Obtained: 13					

Name of Evaluator: Monika Pathasign. Monily

ADD-ON COURSE QUIZ Time: 30 Min Course Name: Hardware, Assembly & Networking Date: 2611212022 Roll No: Name: Riseiko sharma Year/Sem: 1/1 Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'		DCA	Greater	Noida (U.P.)			
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	a.) 1024 Megabytes	1024 Petabytes				
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	a.) Fiber Optic Cable	Coaxial cable				
	c.) Twisted pair Cable	None of the above				
	13) LAN stands for					
	a.) Local Arca Network	Limited Area Network				
	c.) Local Area Next d.)	None of these				
14)	A microprocessor used in					
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	Max. Marks: 15 Marks Ol	Obtained: 12				

Name of Evaluator: Morika fattasign.

Monika

Jui se	e: BCA	ADD-ON COURSE QUIZ Course Name: Hardware, Assembly & Networking			Time: 30 Min Date: 26) 12 1 2 0 2 3		
oll N	D:	Name: Rima	Biswards		Year/Sem: I/I	fd	
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	Name of Evaluator: Newike Rothak Sign. Monily			