MANGALMAY
INSTITUTE OF MANAGEMENT TECHNOLOGY

CERTIFICATION PROGRAMME

On

Hardware, Assembly and Networking

From

10th October – 20th December, 2022

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

For BCA 1st Semester

Resource Person

Ms. Monika Pathak
Assistant Professor, MIMT

SYLLABUS

HardwareAssemblyandNetworking

Duration: 30 Hours

Module 1:
ComputerBasics–IntroductionandHistory,Introduction&Definitionof
Computer,BlockDiagramofcomputer,Classificationofcomputer,CharacteristicsofComputers,WhatisLanguage?,Typ
esofLanguagesandlanguagetranslators.
HistoryandGenerationofcomputers,Memory-
Bits,Bytes,KB,MB,GB,TB,PB,EB,ZB,YBetc,ComputerSoftware,TypesofSoftwarewithEx.(System/Application/Uti
lityS/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.

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

Schedule
HardwareAssemblyandNetworking

Duration: 30hours			
Session	**Content**	**Time**	**Date**
1.	ComputerBasics–IntroductionandHistory,blockdiagramofcomputer.	3:00 -04:30	10/10/2022
2.	Classificationofcomputer• CharacteristicsofComputers	3:00 -04:30	11/10/2022
3.	WhatisLanguage?•TypesofLanguagesandlanguagetranslators	3:00 -04:30	17/10/2022
4.	HistoryandGenerationofcomputers	3:00 -04:30	18/10/2022
5.	Memory- Bits, Bytes, KB,MB, GB,TB,PB,EB,ZB,YBetc	3:00 -04:30	31/10/2022
6.	Computer Software, Types of Software &Computer 2Hardware,Intro.toHardware componentsofcomputer	3:00 -04:30	01/11/2022
7.	AssemblingandDissemblingPCs&Precautionstobetakenwhile assemblingthePC	3:00 -04:30	07/11/2022
8.	IntroductiontoBIOS/CMOSSetup,POST(PowerOnSelfTest)	3:00 -04:30	08/11/2022
9.	DemonstrationofBIOS/CMOSConfiguration(Date,Time,Enable/Disable Devices).	3:00 -04:30	14/11/2022
10.	DualBIOSFeature•BIOS/CMOSSetup, BootingSequence/BootOrder	3:00 -04:30	15/11/2022
11.	IntroductiontoOperatingSystem&DefinitionandtypesofOperatingSystems	3:00 -04:30	21/11/2022
12.	MS Dos&Windows9x&Android	3:00 -04:30	22/11/2022
13.	XP/Vista,Linux,MACOS	3:00 -04:30	28/11/2022
14.	ProcessofBootingtheOperating System	3:00 -04:30	29/11/2022
15.	WinXP/Win7	3:00 -04:30	05/12/2022
16.	ActivationandAutomaticUpdatingprocedures	3:00 -04:30	06/12/2022
17.	Linux	3:00 -04:30	12/12/2022
18.	PracticalDemonstrationofComputer Assembling	3:00 -04:30	13/12/2022
19.	PracticalDemonstrationofComputer Assembling	3:00 -04:30	19/12/2022
20.	Revision	3:00 -04:30	20/12/2022

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

	Report
NameofActivity	**Hardware, Assembly and Networking**
Date	10th October , 2022 – 20th December , 2022
Venue	BCAClassroom
Organizedby	BCADepartment
Resourceperson	Ms.Monika Pathak,AssistantProfessor,MIMT
Participated by	BCAIstyearstudents(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 andTechnology organized add on certification course on "hardware andnetworking". The course gave the opportunity to learn about 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. 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. Day 8: In this session, the BIOS and CMOS configuration were covered. POST stands for power on self test. Day9:The session begins with a BIOS and CMOS demonstration. Day10:The resource people had a discussion with the students regarding the dual BIOS feature, which is the BIOS/CMOS configuration and booting routine. 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. Day13: The discussion was still going on when using the MAC OS, Ubuntu Linux, and Windows XP and VISTA 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. Day17: Ubuntu Linux was discussed in this session. Day18:The resource person begins with a hands-on computer assembly demonstration. Day19:A demonstration of how to assemble a computer was done practically in this session. Day20: The overall session was discussed by the resource person.

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

RESOURCEPERSONPROFILE

Name: Ms. Monika Pathak,Assistant Professor

Org:MIMT,GreaterNoida

Qualification: BCA, MCA

AreaofExpertise: Networking

Certificate Template:

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

Course: BCA

ADD-ON COURSE QUIZ
Course Name: Hardware, Assembly & Networking

Time: 30 Min
Date: 26/12/2022

Roll No:

Name: Sanskar Mishra

Year/Sem: I/I

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1) When the computers shut down, the.................. contents are lost.

   a.) Input
   b.) Output
   c.) Memory
   d.) Storage

2) A hard disk is divided into tracks which are further subdivided into ....

   a.) Vectors
   b.) Clusters
   c.) Sectors
   d.) None of the above

3) The Expansion cards are inserted into ....in a computer

   a.) Slots of CPU
   b.) Hard Disk of CPU
   c.) Peripheral Devices
   d.) None of the above

4) Which memory is known as Volatile Memory

   a.) RAM
   b.) ROM

5) Which of the following is a device that is used to connect a number of LANs?

   a.) Bridge
   b.) Switch
   c.) Router
   d.) Repeater

6) Which of the following has the highest storage

   a.) Megabyte
   b.) Gigabyte
   c.) Terabyte
   d.) Kilobyte

7) Which of the following has the fastest speed in the computer memory hierarchy?

   a.) Cache
   b.) Registers in CPU
   c.) Main memory
   d.) Disk Cache

PTO

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
   b.) 1024 Petabytes
   c.) 1024 bytes
   d.) 1024 bits

10) A source program is the program written in_____language.

   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
   b.) Coaxial cable
   c.) Twisted pair Cable
   d.) None of the above

13) LAN stands for

   a.) Local Area Network
   b.) Limited Area Network
   c.) Local Area Next
   d.) None of these

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 of hardware?

   a.) Excel
   b.) Monitor
   c.) Printer
   d.) Mouse

---------------------- For Departmental use only ----------------------

Max. Marks: 15   Marks Obtained: 13

Name of Evaluator: Monika Pathak. Sign. Monika

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Course: BCA

ADD-ON COURSE QUIZ
Course Name: Hardware, Assembly & Networking

Time: 30 Min
Date: 26|12|2022

Roll No:

Name: Rohan Prakash

Year/Sem: I/I

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

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   c.) Terabyte   d.) Kilobyte

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

Course: BCA

ADD-ON COURSE QUIZ
Course Name: Hardware, Assembly & Networking

Time: 30 Min

Date: 26|12|2022

Roll No: **Name:** Divya Shukla

Year/Sem: I/I

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1) When the computers shut down, the.................. contents are lost.

   a.) Input b.) Output

   c.) Memory d.) Storage ✓

2) A hard disk is divided into tracks which are further subdivided into ....

   a.) Vectors b.) Clusters

   c.) Sectors ✓ d.) None of the above

3) The Expansion cards are inserted into .... in a computer

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7) Which of the following has the fastest speed in the computer memory hierarchy?

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PTO

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c.) System unit   d.) Motherboard ✓

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a.) Excel ✓   b.) Monitor

c.) Printer   d.) Mouse

---------------- For Departmental use only ----------------------

Max. Marks: 15   Marks Obtained: 10

Name of Evaluator: Monika Pathak Sign. Monika

Course: BCA   **ADD-ON COURSE QUIZ**   Time: 30 Min

Course Name: Hardware, Assembly & Networking   Date: 26|12|2022

Roll No: Name: Somil Pal   Year/Sem: I/I

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

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                                                       PTO

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Max. Marks: 15   Marks Obtained: 13

Name of Evaluator: Monika Pathak Sign. Monika

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

Course: BCA ADD-ON COURSE QUIZ Time: 30 Min
Course Name: Hardware, Assembly & Networking Date: 26|12|2022
Roll No: Name: Prateek Kumar Year/Sem: I/I

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1) When the computers shut down, the................... contents are lost.

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2) A hard disk is divided into tracks which are further subdivided into ....

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   c.) Router ✓ d.) Repeater

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   a.) Megabyte b.) Gigabyte

   c.) Terabyte ✓ d.) Kilobyte

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   a.) Cache ✓ b.) Registers in CPU

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Name of Evaluator: Monika Pathak **Sign.** Monika

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

Course: BCA

ADD-ON COURSE QUIZ
Course Name: Hardware, Assembly & Networking

Time: 30 Min
Date: 26|12|2022

Roll No: Name: Isha

Year/Sem: I/I

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

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   a.) Slots of CPU
   b.) Hard Disk of CPU
   c.) Peripheral Devices ✓
   d.) None of the above

4) Which memory is known as Volatile Memory

   a.) RAM
   b.) ROM ✓

5) Which of the following is a device that is used to connect a number of LANs?

   a.) Bridge
   b.) Switch ①
   c.) Router ✓
   d.) Repeater

6) Which of the following has the highest storage

   a.) Megabyte
   b.) Gigabyte ①
   c.) Terabyte ✓
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7) Which of the following has the fastest speed in the computer memory hierarchy?

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Max. Marks: 15   **Marks Obtained: 10**

Name of Evaluator: Menika Pathak **Sign.** Menika

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Course: BCA   **ADD-ON COURSE QUIZ**   Time: 30 Min

Course Name: Hardware, Assembly & Networking   Date: 26|12|2022

Roll No: Name: Shravan Dubey   Year/Sem: I/I

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                                                                    PTO

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Course: BCA

ADD-ON COURSE QUIZ
Course Name: Hardware, Assembly & Networking

Time: 30 Min
Date: 26/12/2022

Roll No: Name: Drishti Goyal   Year/Sem: I/I

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Max. Marks: 15   Marks Obtained: 12

Name of Evaluator: Mouka Pathak Sign. _Mouika_