

MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)

Name of Department: CSE & IT

SUMMER INTERNSHIP PROGRAMME 2018

ON

“COMPUTER HARDWARE & NETWORKING”

(JUNE 1 – 20, 2018)

Module Name		Computer Hardware & Networking
Module Discipline		CSE & IT
Module Faculty Coordinators		Prof. Dheeraj Gurjar & Prof. Namrata Agrawal
Module Credit		02
Pre requisite		Operational familiarity with computer System
Maximum numbers of students allowed		30 Students
Students Workload	Lecture	01 Hour/day for 15 days
	Tutorial	01 Hour/day for 15 days
	Laboratory	02 Hour/day for 15 days
	Total	60 Hours
Module Objective and Competences to be acquired		To acquire practical knowledge of computer hardware, networking & operating system.
Module Description		• Demonstration of operating system installation and hardware configuration. • Demonstration of networking devices and IP addressing for communication and connection of internet. • Simulation and study of network using different networking tools.
Module Methodology		Lectures supported by tutorial, assignments and laboratory exercises
Day	Contact Hour(In Hr)	Module Contents
1.	4	Introduction to PC Components
2.	4	Desktop PC assembling
3.	4	Installation & Partitioning of Hard Disk

4.	4	● Configuration of BIOS ● Motherboard, storage devices ● Install and Configure a printer, DVD Writer etc.
5.	4.	Demonstration of Operating system installation and configuration process
6.	4	Basics of Computer Network.
7.	4	Working principle of Internet Model.
8.	4	Introduction of Networking Devices.
9.	4	Types of Internet connection(dial up, wifi, broadband, 3G/4G).
10.	4	IP Addressin.
11.	4	Introduction & Design of Wireless Network.
12.	4	Study Of Client Server Architecture.
13.	4	Network Security fundamentals.
14.	4	Hands on Network Security Tools(IPscanner, Wireshark Etc.)
15.	4	Basics of Internet & Intranet.
Total	15	60Hr
Module Outcome		● Students will get insight of hardware components and its installation process. ● Students will learn essential networking skills including installing, configuring, and troubleshooting.
Assessment / Evaluation & Grading System		Assignments, Tutorial Sheets ,laboratory evaluation & Skill test
Registration		Registration is free of cost .Registration is online mode only through link on Institute website <u>The selection is on first come and first serve basis depending upon the availability of the seats.</u>
Dates to Remember Last date of online registration Confirmation of selection by E-mail		To be announced shortly

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