modulation

Unit III

Loading LAN drivers - creating stratup NCF and autoexdc. CFC files- Installing network workstations - netware security - Network printer - utilities.

Unit IV

Login - Logout- console - NDIR - NUER- PURGE - NENDIR SALVAGE- FALG- SEND- SLIST - SYSTIME- WHOAMI- BROADCAST- ETC., Utility command -SYSCON - SUPERVISOR OPTIONS - SYSTEM LOGIN SCRIPT SECURITY EQUIVALENCES - VOLUME INFORMATION - MAPPING - PRINTER CONSOLE - FILE CONSOLE, etc.,

Unit V

Windows and NT installation:
Introduction, Windows and Installation Kit, Preparing NT server, Installing NT workstations, Loading drivers.

Relevant User Manuals.

construction and operations - understanding signal modulation
singal standards troubleshooting.

Text

     Troubleshooting, maintaining and repairing PC's
          - Stephen J. Bigelow, TMH, New Delhi 2000
     Chaps: 6,7,9,16,17,21,26

General Ref.

    1. IBM PC and CLONOS Hardware, Troubleshooting and
Maintenance - B. Govindarajalu, TMH, New Delhi 2000.

    2. Computer Hardware Course - V.P. Singh and M. Singh
Asian Publishers, New Delhi, 1996.

NETWARE ADMINISTRATION

Unit I

    Introduction to Novell Netware - Novell Netware server -
cp45 - Netware Components - cp46 - File allocation table
duplication - cp47 - hot-fix cp 48 - disk deleting cp52 - transaction
tracking system.

Unit II

    Novell Netware - Installation quick path - preparing the
server - installing the novell netware operating system - loading the
disk driver - creating disk partitions - creating and mounting
volumes - copying system and public files into the server.

2. Computer Hardware Course

- V.P. Singh and M. Singh, Asian Publishers, New Delhi, 1996.

COMPUTER HARDWARE - II

Unit I

BIOS features - Boot sequences - compatibility issues - error messages.

Unit II

CD-ROM Drives - CD- R standards and Characteristics - CD-ROM mechanics - CDROM electronics - Creating a bootable CD - Image file - Catalog file - Troubleshooting.

Unit III

CMOS - Entering CMOS setp - basic optimization tactics - configuring - power management - auto configuration - backing up CMOS RAM - CMOS maintenance and Troubleshooting.

Unit IV

Floppy Drives - Magnetic storage concepts - drive construction troubleshooting - hardwares- drive concepts - drive construction - drive formattting - FAT basics - drive testing and troubleshooting.

Unit V

Laser/LED printers - writing mechanisms - EP cartridge - troubleshooting - modems and Fax Cards - Basic modem

Unit II

Mother board components - process and memory bus-types of I/O. buses.

Unit III

Types of memory - memory speed-physical memory, Installing memory- upgrades - the system logical memory layout.

Unit IV

Power supply functions and operations - power management trouble shooting - repairing - power protection systems.

Unit V

Keyboards - Mice- Video hardware- video display adapters- SVGA - VESA SVGA standards - cards for multimedia.

Ref: upgrading and repairing PC's.

- Scott Mueller Eastern Economy Edition, PHI New Delhi 2000.

Chapters: 1 to 9.

General Ref:

1. IMB PC and CLONOS Hardware, Troubleshooting and maintenance - B. Govindarajalu, TMH, New Delhi 2000.

A candidate who secures not less than 50% of the aggregate marks in all parts of the final examination is placed in the second class.

A candidate who secures not less than 60% of the aggregate marks in all parts of the final examination shall be declared to have passed the examination and placed in first class.

A candidate who passed in first class and who obtains not less than 75% of the marks in any paper (provided it is cleared in the first attempt) shall be declared to have passed with a distinction in that paper.

Any other Information

Apart from the above regulations, common regulations other than those mentioned above will also be applicable to this course.

DIPLOMA IN COMPUTER HARDWARE MAINTENANCE

S.No.	Course Name	Int.	Ext.	Total
1.	Computer Hardware I	40	60	100
2.	Computer Hardware II	40	60	100
3.	Netware Administration	40	60	100

Computer Hardware - I

Unit I

Personal - Computer background - PC components, features and system design- various types of micro processors.

Restriction to Complete the Course

The course should be completed within a period of THI
years from the time of the commencement of the course, for
year program.

Evaluation:

Evaluation of the candidates shall be through both int
and external assessment. The ratio of internal and ex
assessment should be 40:60.

The break-up for internal assessment shall be as follow

1. Tests   - 20 Marks
2. Assignments/term papers etc.   - 10 Marks
3. Class participation/ Seminar/Quiz - 10 Marks

                                    Total   40 Marks

Class participation means, the skills of a student
meaningful questions during the classes, answering to the qi
posed b the faculty and students, quality of the participatior
class discussions etc.

Classification of Candidates

A candidat who obtains not less than 50% marks
paper in the external examination separately and 50% mar
aggregate of both external examination and the internal e
shall be declared to have passed. There is no separate mini
internal evaluation.

Part B

    Short answers. Each question $6 \times 3 = 18$
    carries 3 marks
    Answer any six out of nine question

Part C

    Brief answers. Each question c $3 \times 9 = 27$
    arries 9 marks
    Answer any three out of five questions

                         Total   60

Marks

Failed Candidates:

    A candidate, who fails in any paper/papers of one semester examination will be permitted to proceed to the next semester class.

    A candidate who has failed in a paper/papers may appear again in these failed papers for not more than two times per paper excluding the first sitting. If the candidate fails to clear any one paper in the third attempt, he/she will not be awarded the diploma.

Improvement Examination

    A candidate who wishes to write an improvement exam may be allowed to appear for the semester exam again if he/she pays the necessary exam fees. He or she may be allowed to appear only one improvement exam per paper and the marks scored in the second attempt only will be taken for consolidation.

iii) No candidate shall be admitted to the examination unless he/she has attended not less than 75% of the total lectures and class sessions and has produced a certificate from the head of the institution where he/she has studied certifying that his/her progress and conduct have been satisfactory.

4. Methods of Study

Lectures shall be supplemented by participatory methods of learning and assignments in accordance with the nature of the subject with a view to enable the candidates to analyse and solve many current problems in hardware maintenance.

DIPLOMA IN COMPUTER HARDWARE MAINTENANCE

Scheme of Examination:

Theory Paper

Internal	= 40 Marks
External	= 60 Marks

	= 100 marks

External Examination Question Pattern

Part A

Objective type questions.   15 x 1 = 1
Each question carries
Answer all the 15 questions

MADURAI KAMARAJ UNIVERSITY
BOARD OF STUDIES IN COMPUTER SCIENCE
DIPLOMA IN COMPUTER HARDWARE MAINTENANCE

REGULATION FOR ADMISSION

1. Eligibility for the Course:

Candidates for admission to the Diploma in Compute Hardware Maintenance course should have passed highe secondary examination (HSC).

2. Application for Admission

Application for admission to the course must be made in t prescribed form obtained at the office of the institution offering t course, not later than the date notified each year. The decision the college shall be final in all cases of admissions.

3. Eligibility for the Diploma

i) Candidates for the diploma shall, besides undergoing prescribed course of the study, do practical work under guidance of Staff member and to the satisfaction of the Head of institution.

ii) No candidate shall be eligible for the diploma unl he/she has completed the prescribed course of the study in institution and has passed the prescribed examinations.

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