



J.S. University, Shikohabad
Faculty of Information
Technology

Value Added Course

AY: 2018-19

HARDWARE TROUBLE SHOOTING AND VIDEO EDITING

Learning Outcome:

- Identify hardware component of a computer.
- List the hardware component such as processor, memory, disk board.
- Students will understand basic editing tools and technique of sound and video recording in preparation for the mastering of a television program, motion picture and web application.

Duration: 30 Hours. (Theory and Practical)


Course Outcomes:

- Understand Basics of Hardware Components.
- Acquire knowledge of Finding Faults in Components
- Install, Configure and maintain various components in computer system and peripherals.
- Diagnose faults of Different Component
- Repair and maintain computer system and its peripherals.

MODULE-1

(6Hrs)

Introduction - Computer Organization — Number Systems and Codes — Memory ALU— CU — Instruction prefetch — Interrupts — I/O Techniques — Device Controllers Error Detection Techniques Microprocessor — Personal Computer Concepts —Advanced System Concepts — Microcomputer Concepts — OS — Multitasking and Multiprogramming Virtual Memory Cache Memory — Modern PC and User.

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MODULE-2

(5Hrs)

PC Hardware Overview

Introduction — Hardware BIOS DOS Interaction — The PC family — PC hardware — Inside the System Box — Motherboard Logic — Memory Space — Peripheral Interfaces and Controllers — Keyboard Interface — CRT Display interface — FDC — H DC.

MODULE-3

(6Hrs)

Troubleshooting

Introduction computer faults — Nature of faults -- Types of, faults — Diagnostic programs and tools — Microprocessor and Firmware — Programmable LSI's — Bus Faults — Faults Elimination process — Systematic Troubleshooting — Symptoms observation and analysis — fault diagnosis- fault rectification — Troubleshooting levels — FDD, HDD, CD ROM Problems.

MODULE-4

(7Hrs)

Editing Concepts and Fundamentals


Editing - meaning and significance, Grammar of editing — (i) Grammar of Picture (ii) Grammar of Audio, eye line, point of view and continuity type- match cut, jump cut, tempo, transition, special effects, Importance of cut away and cut in shots, Editing problems and ethics Editing Techniques: Criteria for editing - picture, narration and music, Editing equipment - recorder, player, Video Switcher, audio mixer, monitor, speaker, special effect generator, nonlinear workstation

MODULE-5

(6Hrs)


Types of Editing - assemble and insert editing, on line and off line editing, cut to cut and A Roll editing., Non linear editing (basic software's)

Introduction to Digital Editing, Editing - Action Sequence / Cross Cutting / Parallel Cutting, Editing - Advertising & Promotional video, Editing - Complex Dramatic Scene. Analysis of film sequences from editing point of view

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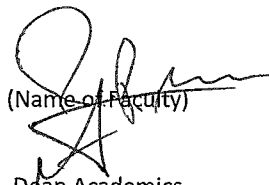
REFERENCES

1. Grammar of Edit — Roy Thompson.
2. The Technique of Film Editing — Karel Reisz & Gavin Millar.
3. Peter Abel, Niyaz Nizamuddin, "IMB PC Assembly Language and Programming", Pearson Education, 2007
4. Scott Mueller, "Repairing PC's", PHI, 1992


 (Name of Faculty)

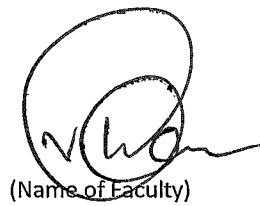
Course Coordinator

*Dr. Dhyan
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 (Name of Faculty)

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 (Name of Faculty)

Director/Principle/Dean of
Faculty/Department

*Dr. Vijay Prakash
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