

**PG DEPARTMENT OF COMPUTER APPLICATIONS
VALUE ADDED COURSE**

PC ASSEMBLY & CCTV INSTALLATION

Objective of the Course:

This course enables the students to understand the fundamentals of PC Assembly and CCTV Installation

Learning Outcomes:

- Assemble/setup and upgrade personal computer systems
- Diagnose and isolate faulty components
- Optimize system performance
- Install and connect peripherals
- Knowledge of CCTV components
- Installation of CCTV

Expected Job Roles

Service Technician for PC and CCTV camera

Duration of the course

30 Hours

Outline of the Course

Unit – I

Computer Components – Computer Tools – Computer Case Preparation - Mother Board -
Installing a CPU - Installing a Computer Memory 4 hours

Unit – II

Installing a Mother Board - Installing a Power Supply - Computer Wiring - Installing a Hard
Drive – DVD Drive 4 hours

Unit – III

Installing a Graphics Card – Booting the computer – Install Drivers – Installing Windows 7 and
10 – Trouble Shooting – Case Study 6 hours

Unit – IV

Electronic Surveillance : Objective - Introduction to Electronic Surveillance - Introducing CCTV
- CCTV Technology - Designing of the CCTV System: Objective - Pre-Installation Activities -
Customer Requirements and Site Analysis - Selection of Components 8 hours

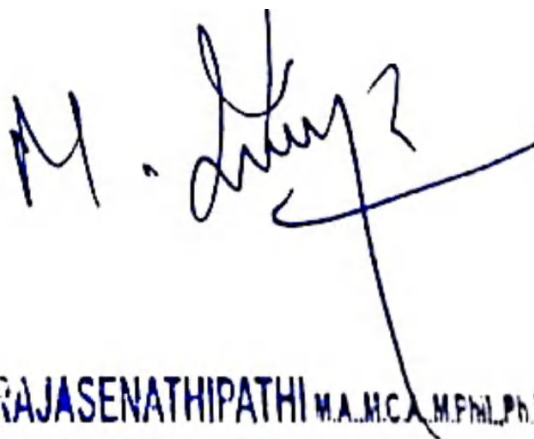
Unit - V

CCTV Camera Installation: Objective - Planning for CCTV Camera Installation - Installing the Camera - Checking the Camera Functions - Set Up CCTV Surveillance System: Objective - Connecting Camera and DVR with System - Configuring Network Settings - Checking the Functioning of the System

8 hours

Material for Study

- <https://www.build-your-own-computer.net/support-files/build-your-own-computer.pdf>
- CCTV Installation Technician – National Skill Development Corporation – Facilitator Guide
- <https://nsdcindia.org/sites/default/files/FG-ELEQ4605-CCTV-Installation-Technician-09-03-2018.pdf>
- <https://www.instructables.com/id/How-To-Assemble-A-Basic-Desktop-PC/>
- <https://choosemympc.net/assemblyguide/>
- http://ptgmedia.pearsoncmg.com/images/9781587132636/samplechapter/9781587132636_ch03.pdf
- http://www.uobabylon.edu.iq/eprints/publication_3_27197_1357.pdf



M. RAJASENATHIPATHI M.A., M.C.A., M.FIN., PH.D.
Head of the Department
Department of Computer Technology
Vallamuthu Gounder Mahalingam College (Autonomous)
POLLACHI - 642 001.