CERTIFICATE COURSE IN

IT SUPPORT FUNDAMENTALS

2021-22

OFFERED BY

PG DEPARTMENT OF COMPUTER SCIENCE
NAM COLLEGE KALLIKKANDY

CERTIFICATE COURSE IN IT SUPPORT FUNDAMENTALS

Offered by

N A M COLLEGE, KALLIKKANDY

Under PG Dept.Of Computer Science

CERTIFICATE COURSE IN IT SUPPORT FUNDAMENTALS

REGULATIONS AND SYLLABUS:

REGULATIONS:-

1. Description of course/objective of the course:

This course is designed to prepare students with specialized skills, knowledge in Computer Hardware support field.

2. Eligibility:

Pass in 12th Examination or Equivalent Examination.

3. Duration of the Course:

30Hours

4. Course details

Paper.1(Theory):   Computer Hardware Basics
Paper.2(Theory):   PC assembling
Practical Training

Being a practical oriented program, the focus will be more on practical training. The candidate shall undergo practical training of the computer laboratory

5. Classification of successful candidate

Successful candidates shall be declared to have passed the theory & practical examination.

A candidate who has passed the examinations shall be eligible to receive the "CERTIFICATE COURSE IN IT SUPPORT FUNDAMENTALS" from the College.

Paper.1 (Theory)

Computer Hardware Basics

Overall objective: At the end of the program the students will be able to understand the fundamentals of Hardware.

Unit 1:

Introduction to computer hardware, components of mother boards & its types-ports, slots, connectors, add on cards

Unit 2:

Power supply units, cabinet types. Storage devices. Primary & secondary storage medium

Unit 3:

magnetic disc, RAM ,ROM ,PROM,EPROM,Floppy,CD Rom,CDRW, DVD, Virtual memory, Cache memory, Linear & Physical memory, video memory.

Unit 4:

Input devices-keyboard, mouse, types of mouse, joy stick, how input is taken in & given out, gaming device

Unit 5:

Output devices- monitors-different types of monitors, printers & its types, projectors,

PC Assembling

Overall objective: At the end of the program the students will be able to understand the basics of assembling a computer & installing OS and give support.

Unit1:

Steps for assembling a PC-commonly used devices an overview, assembling a SMPS in a cabinet, fixing a processor in a mother board, assembling RAM in a motherboard, pinning a cooling fan in a mother board.

Unit 2:

Assembling a hard disc drive in a cabinet, assembling a CD/DVD ORM in a cabinet, fixing motherboard In a cabinet.

Unit 3:

Connecting the cables from the SMPS to motherboard, hard disc, drives & etc.Establishing data connection for to motherboard, hard disc, drives. Fixing wires for power restart switches, fixing wires for power & HDD LED's, fixing wires for external USB and Audio connections.

Unit 4:

Steps for installing windows10

Unit5:

Audio, Games, OS, Audacity error in sound device, Installation of Software program**.**

Practical: (As required)