

### Dempo Charities Trust's DHEMPE COLLEGE OF ARTS & SCIENCE Miramar, Panaji-Goa

# Hardware Maintenance

#### [2 Credits 30 hours]

# Course Objective:

The course is intended to prepare the students for entrance examinations for post-graduation courses in Computer Science.

# Learning Outcome:

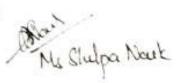
The students will be able to solve logical, analytical, mathematical, reasoning, problems that are part of various competitive examinations

### **Course Contents**

- Basic hardware components: I/O devices, CD drive, CPU, UPS, Harddisk, RAM, ROWM, SMPU, Buses, Battery, Identification and functions(2)
- Motherboards components: identify connectors, slots, ports (USB, VGA, DVI, and HDMI), cables and Connectors. Identification and functions(2)
- Components and connections. CPU (Processor) RAM (Memory) Hard Drive Connections Mechanical vs. Solid State Drives ROM Drives Graphic Cards, Sound Cards, DDR3 and DDR4 RAM's FSB.(4)
- Identifying basis startup errors: Memory slot- Test and understand various beep sounds ,removing the Processor, Installing the Processor.(2)
- 5. Installing Operating systems: windows and linux (4)
- 6. Network basics: LAN, MAN, WAN, network components, addresses(4)

### Reference:

Edward Cheung - Computer Organization, PC maintenance & Trouble shooting



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### **Department of Computer Science & IT**

## **Report of Hardware Maintenance**

Class: TYBSc Computer Science Number of Students: 02 Fees charged: Rs 1000 per student Duration: 20 hours Aim: To learn to connect maintain basic PC problems. Conducted from: March 2017 Instructor: Mr Saurabh Naik

The course on Hardware Maintenanceas conducted for TYBSc Computer Science students for the academic year 201-16. The course of 20 hour duration was conducted during the end of the second term in March 2017

The course teaches students the techniques to setup a computer and solving basic hardwareproblems.