



Don Bosco Institute of Technology, Mumbai – 400070



Department of Computer Engineering

Report on: PC Assembly Workshop

Title: PC Assembly Workshop

Date: 23rd February, 2022

Time: 3:00- 4:00 pm

Venue: Computer Center

Participants: 69

Volunteers: Grejo Joby, Hariharan Iyer, Ruvim Rodrigues, Pakshal Ranawat, Kallis Nadar

Organizing Department/Committee/Authority: ACM Student Chapter

Faculty Coordinator: Ms. Sana Shaikh

Objective:

- To educate the students about various computer components and how they fit and work together.
- To learn computer hardware terminology and the peripherals surrounding it.
- To customize a computer according to specialized specifications.
- To enhance their technical problem-solving ability.
- To provide a brief understanding of multi-core architecture of the system.

Outcomes:

- To ensure students are able to recognize and remember the internal components of a computer.
- To encourage students to experiment into the hardware aspect of computer engineering.
- To enhance their awareness when it comes to understanding the root cause of a hardware problem when it arises.

Report:

ACM organised a ***PC Assembly Workshop*** on the 23rd of February 2022, from 03:00 pm to 04:00 pm in the Computer Centre. This session was held exclusively for the second-year computer engineering students. The primary objective behind this session was to help students gain knowledge on the range of components present inside the PC, along with its functioning.

The workshop started off with Mr. Grejo Joby (Chairperson-ACM) giving a brief gist of the flow and contents of the workshop, followed by emphasizing on the need that everyone must give in their full attention to grasp the fundamental knowledge that they would be demonstrating during the course of the session. Also, they would be letting the students experiment on their own accord to get a better understanding of the components. The volunteers then started dividing the whole class into smaller batches of 9-12 students. Each batch of students had one volunteer assigned to them. The volunteers began by dismantling the CPU, followed by displaying the basic structure inside.

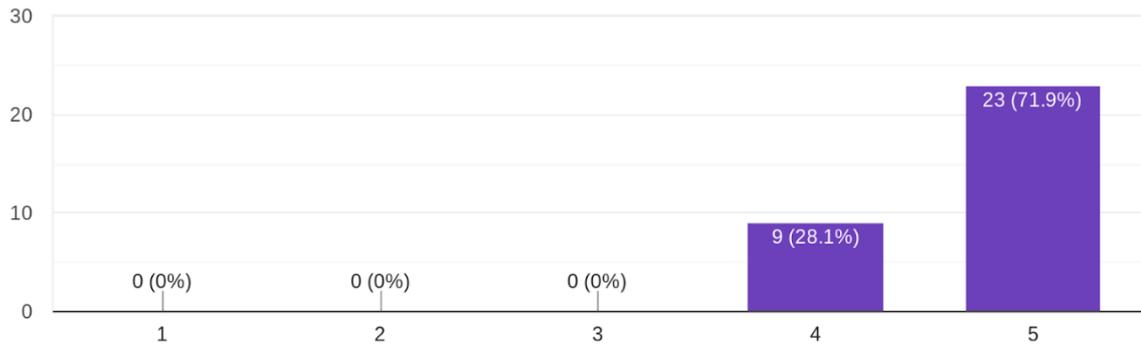
Later on, they continued by explaining the use and function of each and every part present. They covered the functioning of various components like the heat sink, thermal paste, the processor, RAM and its different types, the motherboard, graphic cards and so on. They then went on to explain the various slots and ports available, like the PCI slots, the USB ports, HDMI old and new ports, Male and Female ports and so on. Further on, they dived into the importance of having a grasp on all the important parts, as it assists one to understand if a certain part isn't operating up to par or is completely damaged. They also elucidated on what is CMOS and what are SATA cables and its application.

They later on let the students go through the parts on their own and encouraged them to shoot any questions pertaining to the components that crossed their minds. After all the queries were cleared, the volunteers then asked the students if they were willing to try and assemble the parts of the PC back to where they were previously oriented. Some students willingly came forward and accepted this task and with the help of the volunteers they were able to accomplish putting together the components. Following that, the students were then asked to fill a feedback form which was provided to them through Whatsapp, in order to gauge the level of understanding that they obtained from the session, marking the end of ACM's first offline hands-on workshop for the year 2022.

FEEDBACK ANALYSIS:

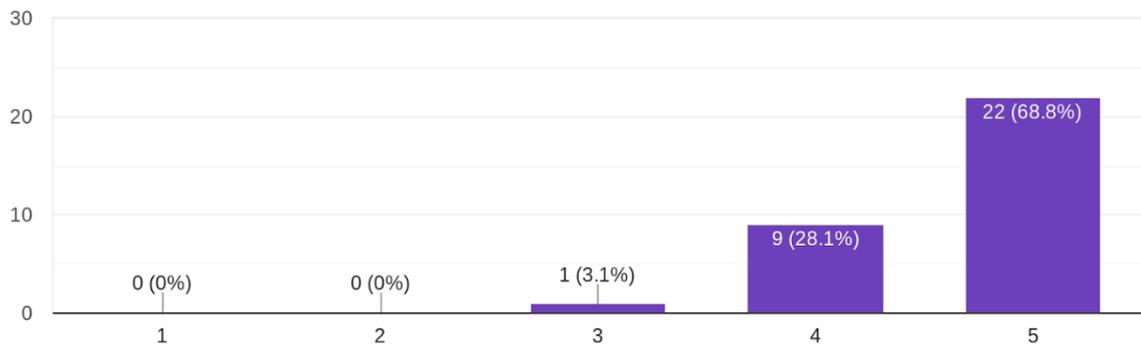
Rate your understanding and ability to identify RAM type

32 responses



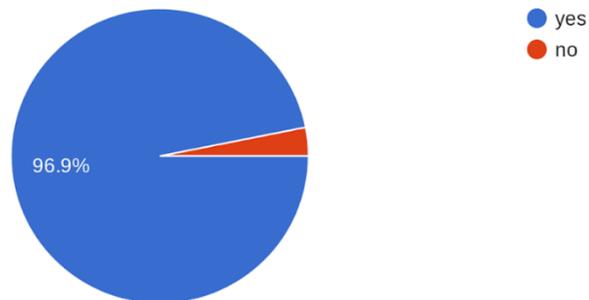
Rate your experience of PC assembly

32 responses



Will you be able to do basic assembly of components

32 responses



POSTER:



ACM-DBIT PRESENTS
PC ASSEMBLY
HANDS ON WORKSHOP



Learn about the internal components of a PC
& how to setup a PC by assembling it's parts!

 23RD FEB 22 | 3 PM
 DBIT | COMP CENTER

ONLY FOR SE COMPS STUDENTS

Contact Details
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dbit.acm.org
  

SNAPSHOT OF THE EVENT:





**Report prepared by: Ms. Chryselle Fernandes
(ACM Admin Head-DBIT)**

**Report approved by: Prof. Sana Shaikh (Faculty Coordinator, Computer Dept., DBIT)
Dr. Phiroj Shaikh (HOD, Computer Dept., DBIT)**