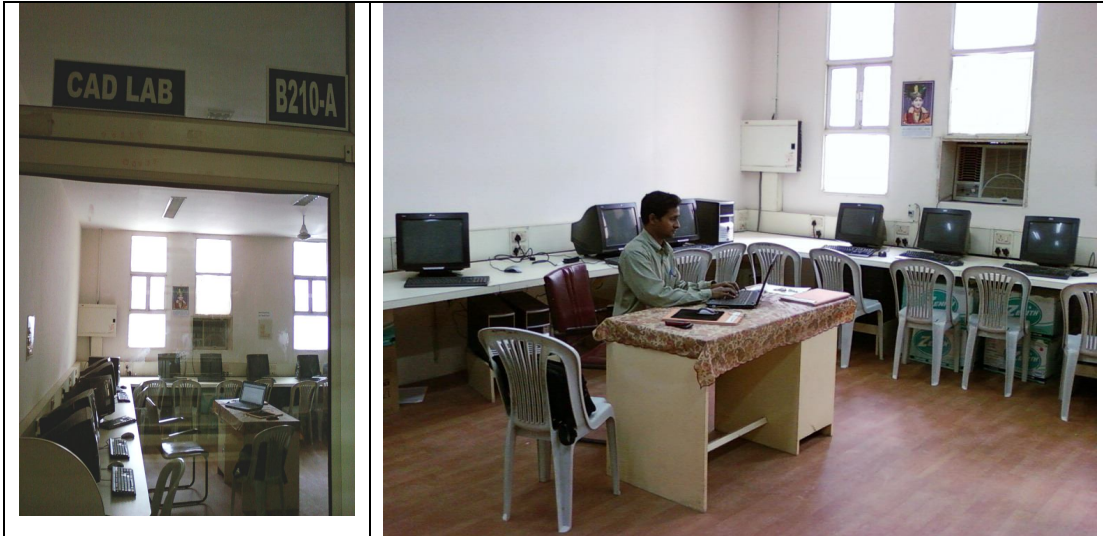


# Computer Aided design Laboratory (B210-A)



Few years back designers used to make prototype of their design and test it in the laboratory under various operating conditions. Thereby they used to check the validity of their design. This process was time taking process. After the evolution of high speed computers and various numerical methods people developed some modeling software and analysis softwares. With the help of these softwares now it has become easy to make a computer generated model of the newly designed product and also to test it under various working conditions. This is what is known as simulation. If during computer simulation the design fails, it can be modified and retested. This saves a lot of time and hence the process of design has become faster as compared to old design process. This is how Computer Aided Design evolved.

In our CAD laboratory we have following softwares:

- IDEAS-8M2: This is a CAE package with 10 licenses. Using this software we can carry out solid modeling, surface modeling, Drafting, assembly design and also Finite Element Analysis.
- Fluent : This is a Computational Fluid Dynamics software. Using this software we can carry out Fluid Flow Analysis. We have 20 licenses of this software.

In our CAD laboratory we have 20 computers having Pentium-IV processor. Out of which two are being used as server for IDEAS and Fluent softwares.