

Computer Science is a powerful engineering tool for problem solving in a variety of domains. IIT-Delhi has developed a CSE program, which, besides developing the computing sciences foundations, also develops in students the engineering skills for problem solving using computing sciences. The program at IIT-Delhi - "inverts the pyramid" - and start with computing-oriented courses first, and then provides flexibility for taking a variety of courses later. This empowers the students to explore innovative applications of computing in the initial years of the program so they can apply computing techniques in different domains.

Program Objectives for the CSE program are to help develop the following attributes in students (in addition to the general attributes mentioned above):

- Understanding of theoretical foundations and limits of computing.
- Understanding of computing at different levels of abstraction including circuits and computer architecture, operating systems, algorithms, and applications.
- Ability to adapt established models, techniques, algorithms, data structures, etc. for efficiently solving new problems.
- Ability to design, implement, and evaluate computer based system or application to meet the desired needs using modern tools and methodologies.
- Understanding and ability to use advanced techniques and tools in different areas of computing