

## **SUMMARY**

Laboratory experiments play a significant role in the knowledge acquisition process by facilitating students to gain practical skills and by conferring them the opportunity to have a more insightful understanding of the theory concepts. By considering the extensive use of Information and Communication Technology (ICT) in almost all fields, the integration of various information and communication technologies (ICT's) with education can revitalize teaching learning process and this can also help to develop and enhance the quality of education system by providing curricular support in difficult subject areas. As the laboratory activities are place bound, time consuming and costly, virtual laboratories can be designed by presenting a safe and collaborative lab environment for students. Virtual laboratories are the web and network based services which enable students to carry out the experiments repeatedly in any number of times and support students to learn the theoretical concepts more efficiently. In the today's modern and digital society, Computer Science Education imparts the problem solving and computational thinking skills with the help of Information technology in education, economic, government, scientific and social contexts. In computer science course, virtual laboratories can be effectively induced that helps them to seek teacher's assistance and manage time while performing a task.