ABSTRACT
The ICT (Information & Communication Technology) can be used as a resource; a resource that provides access point for information as well as real world requirements. This paper shows way how to use ICT for effective & efficient teaching-learning process. The paper throws light on need and use of ICT in Teaching, Learning and Laboratory work, contribution by teachers, students and others to make ICT a reality in technical education. Also paper presents benefits, constraints and steps required to be taken for use effective use of ICT. This paper gives information about some free software which helps to create online courses & helps in teaching-learning process. This paper also explains "BITS Virtual University-A Case Study"

I. INTRODUCTION
Education is the backbone of any economy. Technical Education in particular, as it provides skilled manpower is essential for the growth of industries and service organizations. In the context of globalization, there is an urgent need to look at revamping our education system, as there have been rapid changes and developments happening in all areas including science and technology. One such technology, which has revolutionized the way we live in the last few years including education, is the ‘Information & Communication Technology’ (ICT). We are now experiencing an ICT revolution, just like industrial revolution in the 19th century. The advancements in computers, communication technology / networking and the advent of Internet / Web have opened up new avenues in all fields and education is no exception to it.

II. ROLE OF ICT IN EDUCATION
The impact of ICT on education has been so tremendous that there has been lot of efforts through research to study the impact of the same. The inclusion of ICT in education has caused a paradigm shift from a ‘teacher centered’ to a ‘learner centered’ orientation. The developments in ICT and learning technology has led to a number of trends on the future of educational systems and activities like - E-Learning, Web-based ITS, distance learning, virtual university, virtual school etc.[4].

Educators and policy makers agree that ICTs are of paramount importance to the future of education. ICT can help education in various ways like:
- Increasing access through distance learning – ICTs can provide new and innovative means to bring educational opportunities to greater numbers of people of all ages, especially those who have historically been excluded, such as populations in rural areas, women facing social barriers and students with disabilities.
- Enabling a knowledge network of students – Effective use of ICTs can
Contribute to the timely transmission of information and knowledge, thereby helping education systems meet this challenge.

• Training teachers – The use of ICTs can help in meeting teacher training targets. Moreover, ICTs provide opportunities to complement on the job training and continuing education for teachers.

III. ICT TOOL FOR TEACHING

In the 21st century technical education will require teachers to adapt and adopt a different set of pedagogic practices. The force to pedagogic change in technical education is the new modes of enquiry offered by computer based tools and resources, known as ICT. This technology offers easy access to a vast array of internet resources and extends opportunities for the students both inside and outside the classroom. The main forms of ICT activity include: tools for data capture, processing and interpretation (multimedia software and information system’s), publishing and presentation tools (i.e. computer projection technology), data handling tools (word processing), presentation tools (computer controlled microscope, digital still and video cameras).

Video-conferencing

The paradigm shift in distance learning has created a lot of wonders in distance learning. The present day technological innovations made everything very simple and one can attend conference from Mumbai to Delhi or to any corner of the globe via Videoconferencing upsetting the geographical constraints. It connects everything through satellite and internet which gives a real experience to the learners and it is a boon from heaven to the learners.

Tele-conferencing & Chatting

Tele conferencing is a powerful tool for distance learners. It helps learner to interact with other person over a telephone or via a modem. In present day scenario, mobile technology reduces our work to the maximum extent and is reachable even to an ordinary man and mobile interactions is very easy that makes distance learning a fruitful experience.

Use of Internet

Internet is a great mantra of 20th century which is leading human life towards more comfortable zone. Everything is being digitalized in the world, from student-filled, single teacher directed classrooms to "teacher-less", boundary-less and time-optimised learning kiosks. The new trend of distance learning is being utilized successfully by the ICT revolution.

Virtual classroom

Some teachers and university professors have adopted virtual worlds for educational purposes. Educators create an online community that students can log into and interact with. Within these educational virtual worlds, students will use their avatar to learn about new assignments and to create projects that are viewable within the virtual world.

Moodle Architecture

The word Moodle is an acronym for Modular Object-Oriented Dynamic Learning Environment. Moodle is a student centered course management system designed to help educators who want to create quality online courses. Such e-learning systems are called as Learning Management Systems (LMS) or Virtual