

## I) Overview

The Spoken Tutorial project (**at IIT Bombay**) is an initiative funded by the National Mission on Education through Information and Communication Technology (ICT), **launched by the Ministry of Human Resources and Development, Government of India.**

The project focuses on delivering e-learning IT courses on various **Free and Open Source Software (FOSS)**. The main objective of this project is to promote IT literacy for education and improve the employment potential of learners in India, using FOSS (Free and Open Source Software).

**These courses are designed keeping the following student learning benefits:**

- a. Self-Explanatory - Uses Simple Language
- b. Audio-video – uses multisensory approach
- c. Small Duration – for better retention
- d. Learner-centered- learn at your own pace
- e. Learning by doing – learn and practice
- f. Simultaneously Empowerment – learn a new FOSS

The audio of Spoken Tutorials **courses is available in all 22 official languages of India**, with the video always in English. Self-paced, multi-lingual courses ensure that anybody with a computer and a desire for learning, can learn from any place, at any time and in a language of their choice. Many of the software taught, are used in various disciplines of **Engineering, Pure Sciences and several other Under-Graduate and Post-Graduate studies**. These can be extended to Commerce, Arts and Management streams as well.

Alongside these, there are some **courses relevant at School level**, too, which help school students to visualize difficult concepts of Math and Science. These can also be used by Teachers to prepare lesson plans, explain abstract concepts and give digital assignments to students.

**More than 50+ IT courses are available under this initiative** covering topics under programming, Operating systems, Database, Graphics/animation, etc.- basic coding for school children, Java, HTML, MySQL, PHP, C, C++, 2D/3D graphics animation, Python, Perl, Ruby, Linux, and many more. Over a period of time Spoken Tutorial, IIT Mumbai shall add more programs to be delivered through CSC Academy.

## II) Salient features of Courses

1. Students, Staff & Teachers from Schools, Colleges, Universities, Polytechnics, ITIs, Skill centers, NGOs – all can avail these courses at very affordable fees including Certification.
2. The method is Active learning on Computer systems and very suited for Remote/Distance Education.
3. Teachers & students can master the software courses on their own, at their own place of work or at CSC academy centre or at their own time.
4. Once one gets started any student or faculty can master the Software Course and on successful passing of exam get Certificate.
5. Candidates who are “Teachers” in College/School/other Institutes will be eligible to get the “Faculty Development Programme” Certificate.
6. UG, PG or Research scholar students and even teachers of Science, IT, Engineering, Commerce, Management, MCA disciplines can learn any of the FOSS.
7. Most of these courses can be practiced on Windows platform/software or on FOSS platform/software.
8. CSC Academy centres will act as the proctored examination centres for the courses.

### **III) Student Learning Features:**

1. Basic, Intermediate and Advanced
2. Simple and easy to follow even for a beginner but they also meet the growing needs of the learner
3. Content mandates side-by-side practice thereby ensuring that learners are actively learning
4. Online self-paced learning using text, videos
5. Multi-lingual language (more than 22 Indian languages)
6. Downloadable student study material
7. Practice assignments
8. Simulated environment for practical
9. Quiz and end-exam
10. Industry out-reach connect for potential employment to pass-out students
11. Option for conducting training in offline mode.
12. Joint Certification by CSC Academy and Spoken Tutorial, IIT Bombay for students who successfully pass the online test. Student can re-appear five times at no additional fees.